

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

1a. Type of Work: ☒ DRILL ☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator  
**WESTPORT OIL & GAS COMPANY L.P.**

3A. Address  
**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)  
**(435) 781-7024**

4. Location of Well (Report location clearly and in accordance with any State requirements\*)  
At surface **NENW 684'FNL, 2181'FWL 614840X 40.040720**

At proposed prod. Zone **4432935/-109.653877**

14. Distance in miles and direction from nearest town or post office\*  
**8.65 MILES SOUTHEAST OF OURAY, UTAH**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
**684'**

16. No. of Acres in lease  
**320.00**

17. Spacing Unit dedicated to this well  
**40.00**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
**REFER TO TOPO C**

19. Proposed Depth  
**10,400'**

20. BLM/BIA Bond No. on file  
**CO-1203**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**4762'GL**

22. Approximate date work will start\*  
**UPON APPROVAL**

23. Estimated duration  
**TO BE DETERMINED**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.


4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature  


Name (Printed/Typed)  
**SHEILA UPCHEGO**

Date  
**3/1/2006**

Title  
**REGULATORY ANALYST**

Approved by (Signature)  


Name (Printed/Typed)  
**BRADLEY G. HILL**  
Office  
**ENVIRONMENTAL MANAGER**

Date  
**03-20-06**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

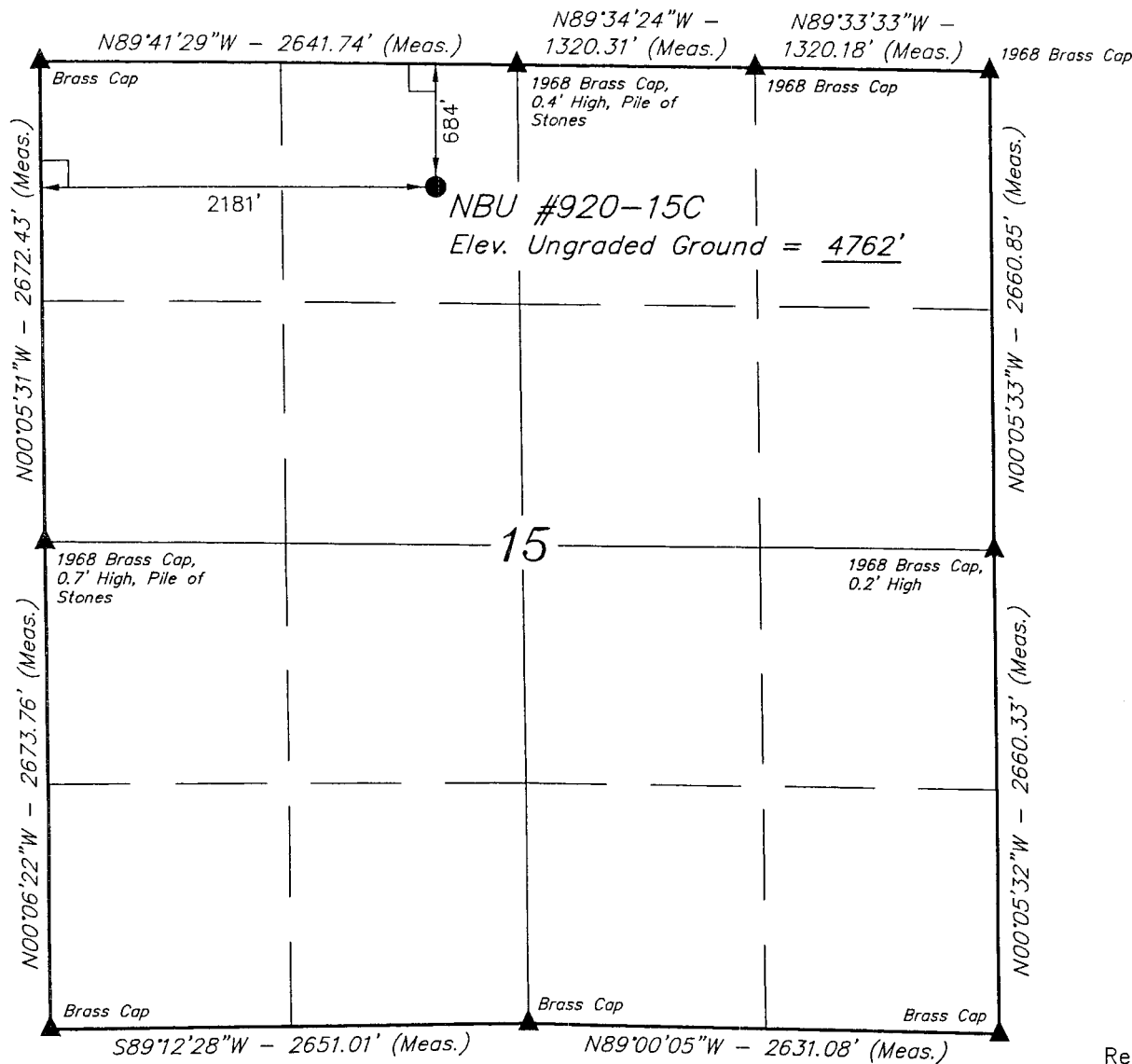
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

**Federal Approval of this  
Action is Necessary**

**MAR 10 2006**

T9S, R20E, S.L.B.&M.



### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)  
 LATITUDE = 40°02'27.03" (40.040842)  
 LONGITUDE = 109°39'16.96" (109.654711)  
 (NAD 27)  
 LATITUDE = 40°02'27.16" (40.040878)  
 LONGITUDE = 109°39'14.47" (109.654019)

### LEGEND:

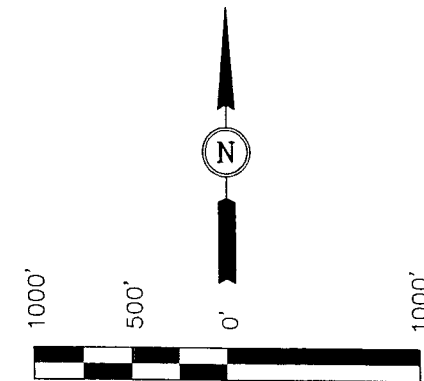
- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

### Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #920-15C, located as shown in the NE 1/4 NW 1/4 of Section 15, T9S, R20E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



### SCALE CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert J. Kern*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

Revised: 1-15-06

UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-10-05	DATE DRAWN: 12-23-05
PARTY D.K. L.K. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr-McGee Oil & Gas Onshore LP	

NBU 920-15C  
NENW SEC 15-T9S-R20E  
UINTAH COUNTY, UTAH  
LEASE NUMBER: UTU-0144868

ONSHORE ORDER NO. 1  
WESTPORT OIL & GAS COMPANY

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Green River	1800'
Wasatch	5300'
Mesaverde	8450'
Total Depth	10,400'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1800'
Gas	Wasatch	5300'
Gas	Mesaverde	8450'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment:**

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

4. **Proposed Casing & Cementing Program:**

*Please see the Natural Buttes Unit SOP.*

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

*Please see the Natural Buttes Unit SOP.*

6. **Evaluation Program:**

*Please see the Natural Buttes Unit SOP.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure at 10,400' TD approximately equals 6,448 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,160 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates & Notification of Operations:**

*Please see the Natural Buttes Unit SOP.*

9. **Variances:**

*Please see the Natural Buttes Unit SOP.*

10. **Other Information:**

*Please see the Natural Buttes Unit SOP.*

**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	March 1, 2006
WELL NAME	NBU 920-15C	TD	10,400' MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah
		STATE	Utah
		ELEVATION	4,762' GL KB 4,777'
SURFACE LOCATION	NENW SECTION 15-T9S-R20E 684'FNL & 2181'FWL		
	Latitude: 40.040842	Longitude: 109.654711	BHL Straight Hole
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: TRIBAL SURFACE & BLM MINERALS, UDOGM, Tri-County Health Dept.		

GEOLOGICAL FORMATION			HOLE SIZE	CASING SIZE	MUD WEIGHT
LOGS	TOPS	DEPTH			
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
			**For wells w/ surf csg set below 2300' app 10 jts of 36# J55 will be run on bottom.		
Catch water sample, if possible, from 0 to 5,300'					
	Green River @ Preset f/ GL @ 2800 MD	1,800			
	Note: 12.25" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.				
Mud logging program TBD Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-12.7 ppg
	Wasatch @	5,300'			
	Mverde @	8,450'			
	TD @ 10,400'				Max anticipated Mud required 12.7 ppg



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

## CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2400	32.30	H-40	STC	0.50*****	1.22	3.21
						3520	2020	564000
	9-5/8"	2400 to 2800	36.00	J-55	STC	1.00*****	1.54	7.12
PRODUCTION						10690	7560	279000
	4-1/2"	0 to 10400	11.60	I-80	LTC	2.33	1.10	2.65

- 1) Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft - partial evac gradient x TD)
- (Burst Assumptions: TD = 12.7 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)
- MASP 4580 psi
- \*\*\*\*\* Burst SF is low but csg is stronger than formation at 2800 feet
- \*\*\*\*\* EMW @ 2800 for 2270# is 15.6 ppg or 0.8 psi/ft

## CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2			NOTE: If well will circulate water to surface, option 2 will be utilized				
	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,800'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	520	60%	11.00	3.38
	TAIL	5,600'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1570	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

## FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

## ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

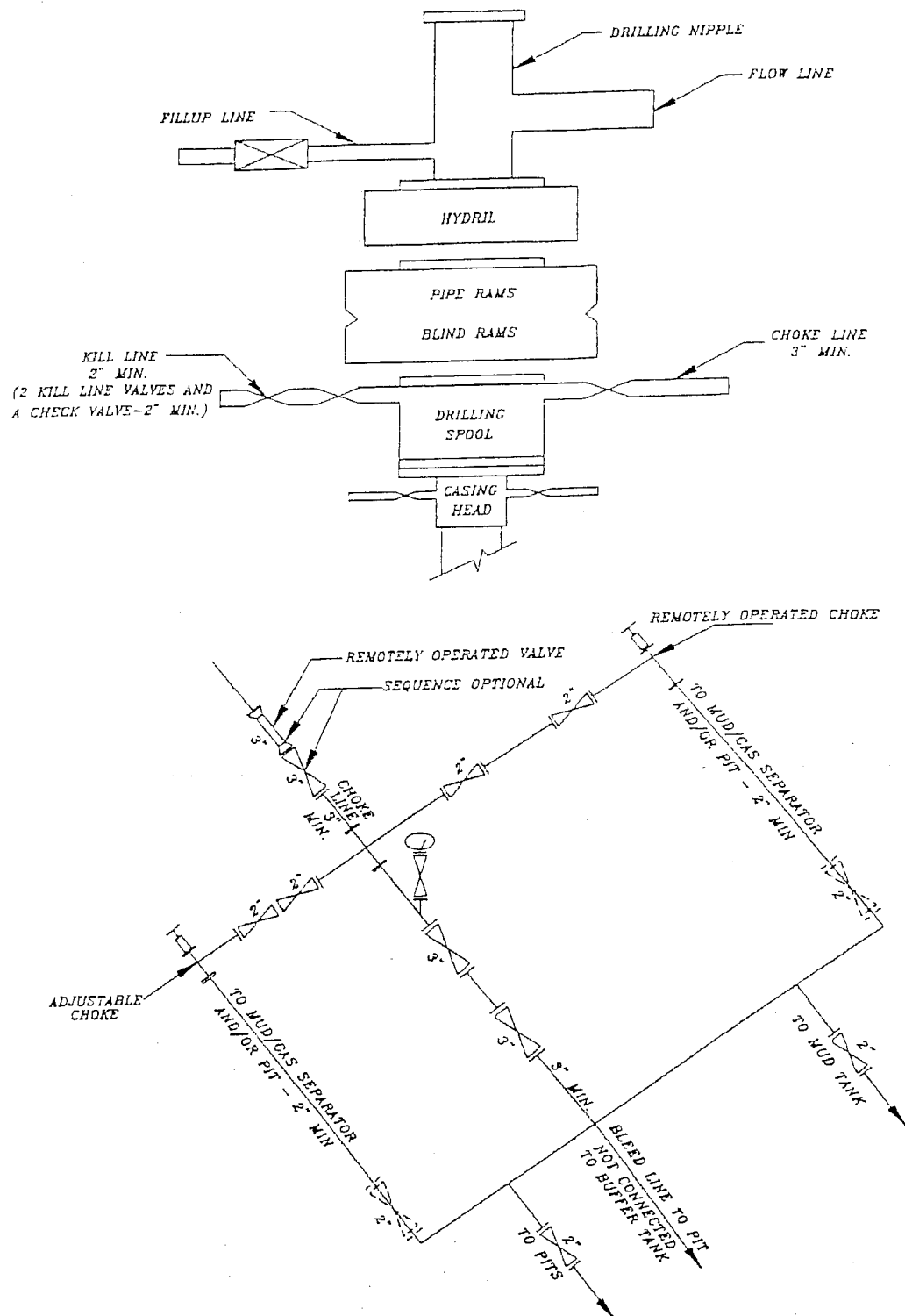
DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT:

Randy Bayne NBU920-15C\_P110\_APD(pipeline).xls

DATE: \_\_\_\_\_

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU 920-15C  
NENW SEC 15-T9S-R20E  
UINTAH COUNTY, UTAH  
LEASE NUMBER: UTU-0144868

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

Approximately 0.2 +/- Miles of proposed access road. Refer to Topo Map B.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

*Please see the Natural Buttes Unit SOP.*

Refer to Topo Map D for the location of the proposed pipeline.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon (2.5Y 6/2), a non-reflective earthtone.

5. **Location and Type of Water Supply:**

*Please see the Natural Buttes Unit SOP.*

6. **Source of Construction Materials:**

*Please see the Natural Buttes Unit SOP.*

7. **Methods of Handling Waste Materials:**

*Please see the Natural Buttes Unit SOP.*

*Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec 5-T9S-R22E, NBU #159, Sec 35-T9S-R21E, Ace Oilfield Sec 2-T6S-R20E, MC & MC Sec 12-T6S-R19E,. (Requests in lieu of filing Form 3160-5 after initial production).*



8. **Ancillary Facilities:**

*Please see the Natural Buttes Unit SOP.*

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Culvert(s) will be installed if needed.

A run off diversion for drainage will be constructed as needed.

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined. When the reserve pit is closed, the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

*Please see the Natural Buttes Unit SOP.*

11. **Surface Ownership:**

Ute Indian Tribe  
P.O. Box 70  
Fort Duchesne, Utah 84026  
(435)-722-5141

12. **Other Information:**

A Class III archaeological survey has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. **Lessee's or Operators's Representative & Certification:**

Sheila Upchego  
Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7024

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted Upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Kerr-McGee Oil & Gas Onshore LP Bond #N-2115, BLM Nationwide Bond # CO-1203, and BIA Nationwide Bond # RLB0005239.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Sheila Upchego

03/01/2006

Date

# Kerr-McGee Oil & Gas Onshore LP

NBU #920-15C

SECTION 15, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 3.6 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE EXISTING #120 AND THE BEGINNING OF THE PROPOSED ACCESS FOR THE #920-15B TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 37.75 MILES.

# Kerr-McGee Oil & Gas Onshore LP

NBU #920-15C

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 15, T9S, R20E, S.L.B.&M.

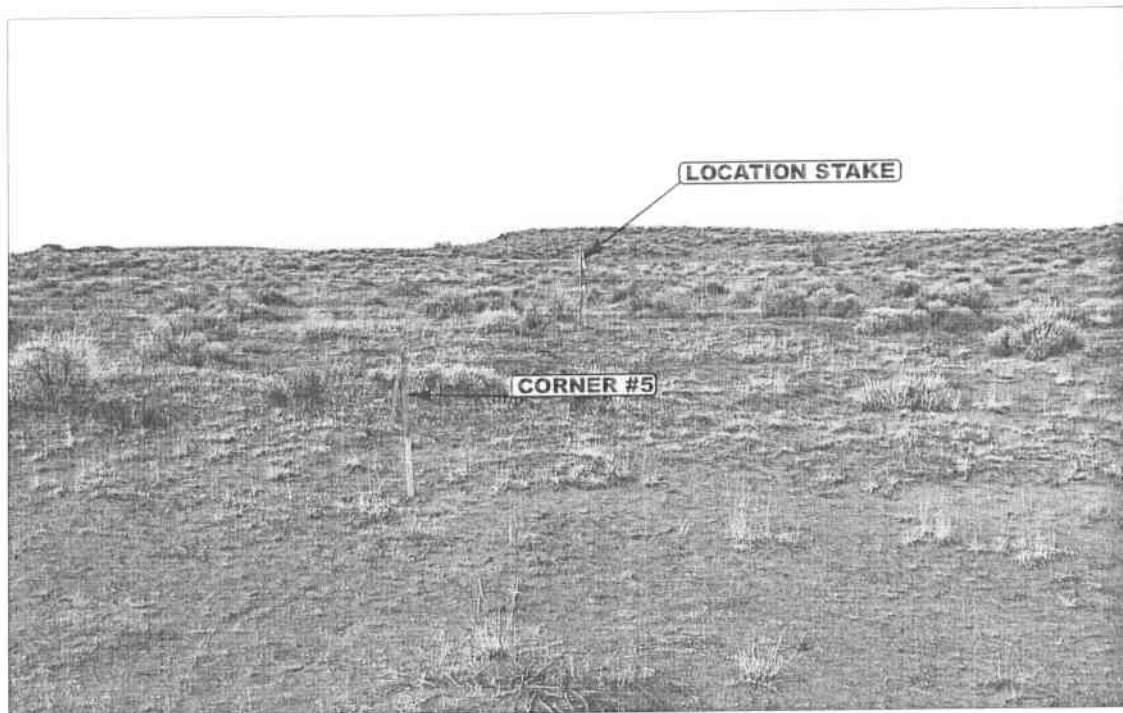


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

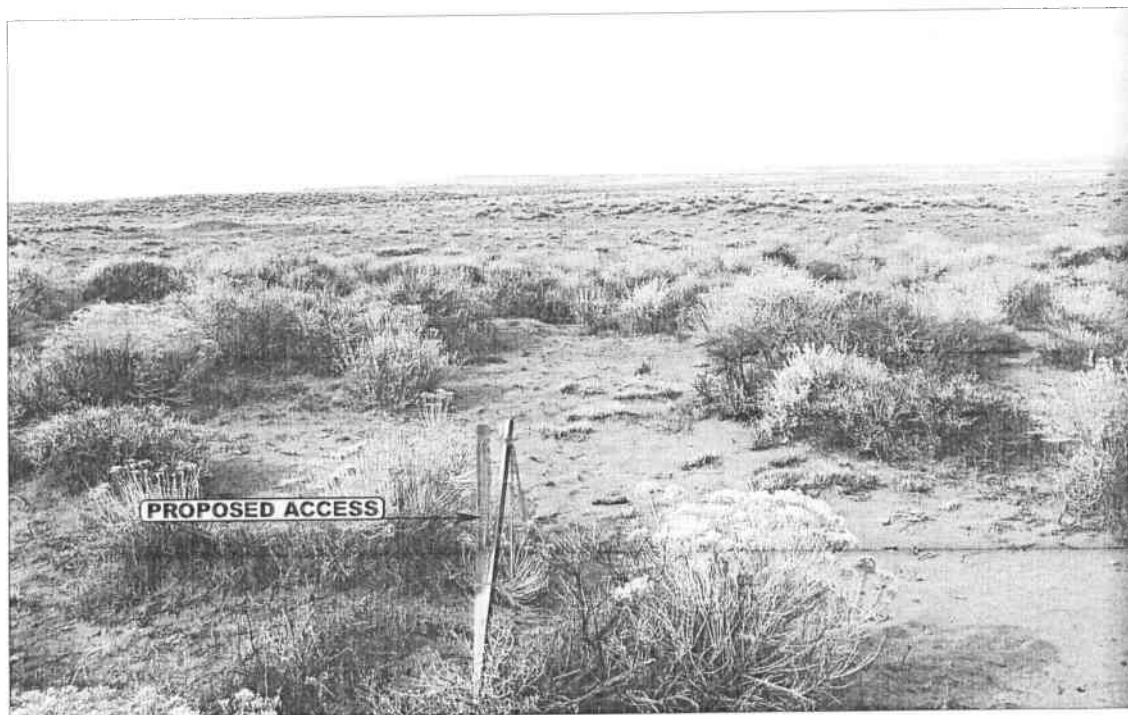


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

**UELS**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

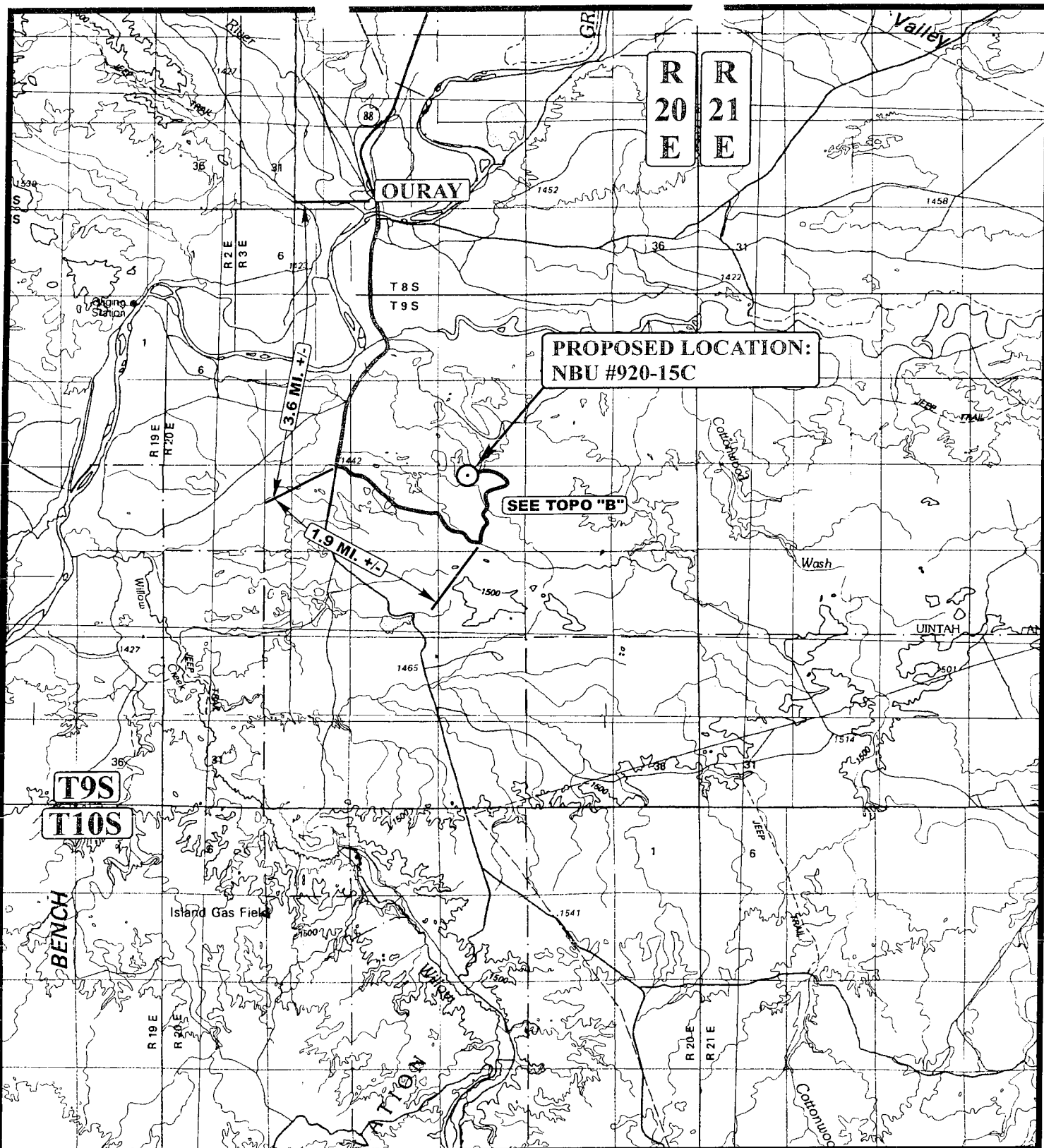
11 18 05  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.K.

DRAWN BY: C.P.

REVISED: 01-14-06



**PROPOSED LOCATION:  
NBU #920-15C**

**SEE TOPO "B"**

**T9S  
T10S**

**LEGEND:**

○ PROPOSED LOCATION

**Kerr-McGee Oil & Gas Onshore LP**

**NBU #920-15C**

**SECTION 15, T9S, R20E, S.L.B.&M.**

**684' FNL 2181' FWL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC  
MAP**

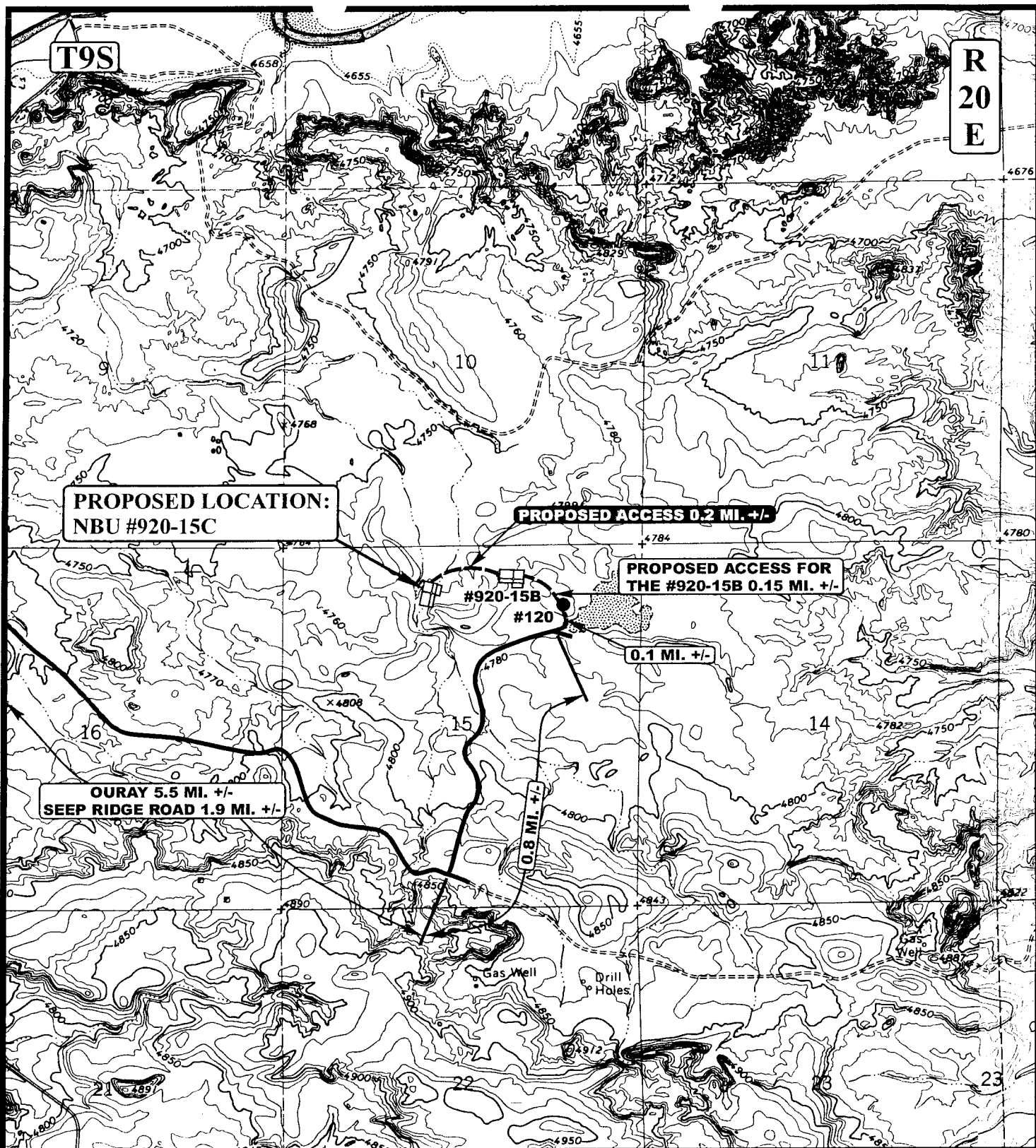
**11 18 05**  
MONTH DAY YEAR

**SCALE: 1:100,000**

**DRAWN BY: C.P.**

**REVISED: 01-14-06**





# LEGEND:

————— EXISTING ROAD  
 - - - - - PROPOSED ACCESS ROAD

N

Kerr-McGee Oil & Gas Onshore LP

NBU #920-15C

SECTION 15, T9S, R20E, S.L.B.&M.

684' FNL 2181' FWL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
 MAP

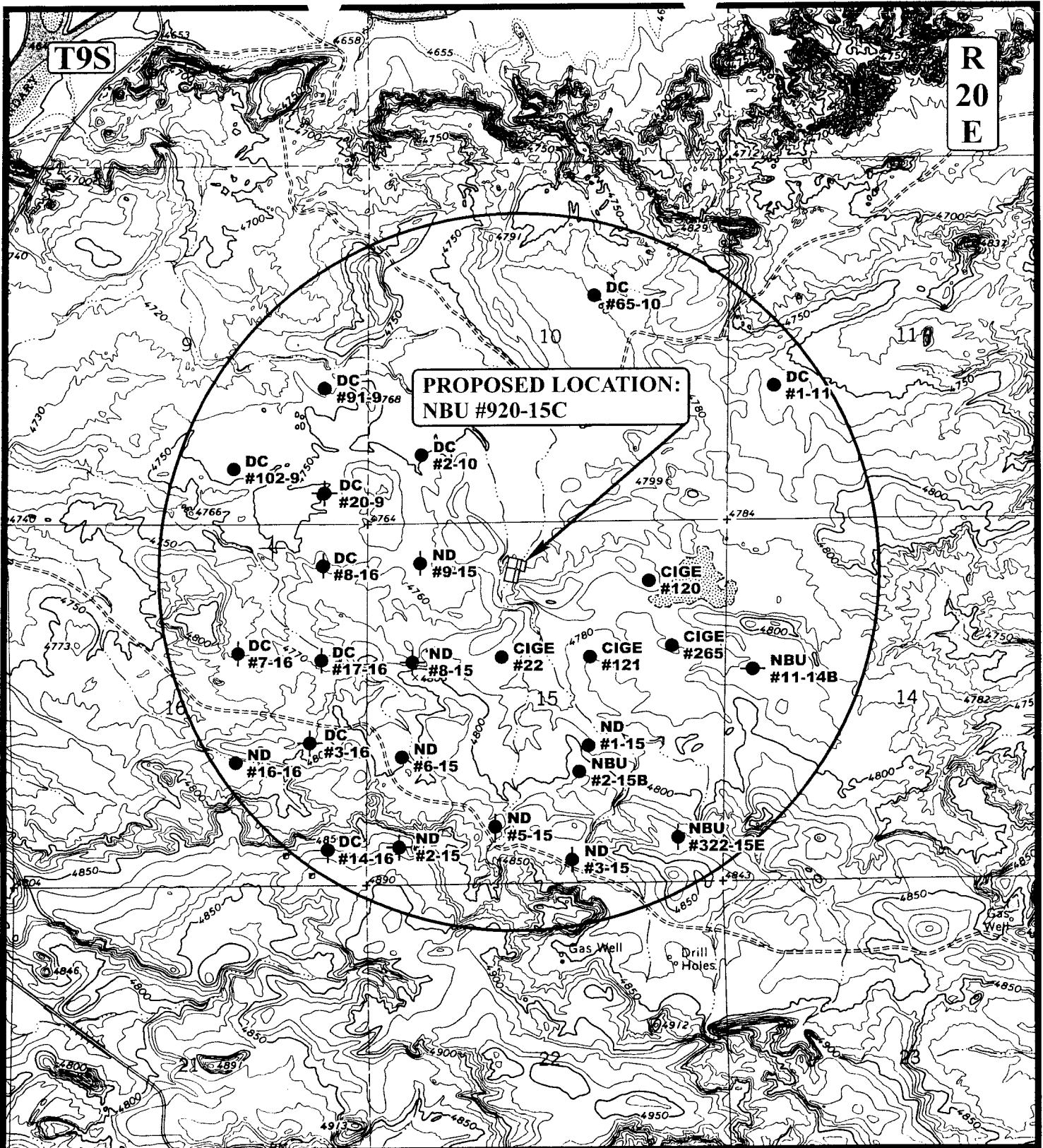
11 18 05  
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 01-14-06





# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



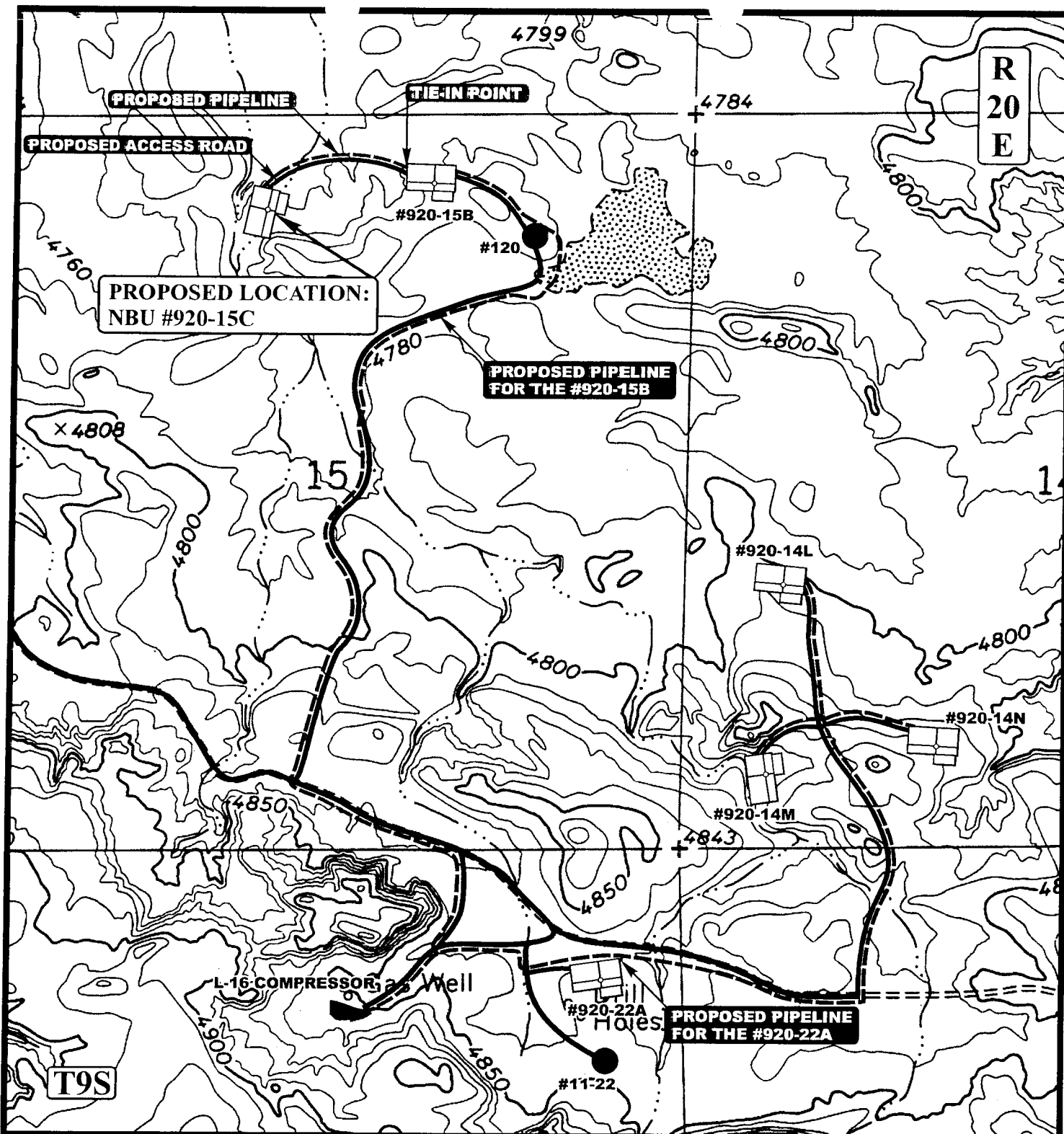
## Kerr-McGee Oil & Gas Onshore LP

NBU #920-15C  
 SECTION 15, T9S, R20E, S.L.B.&M.  
 684' FNL 2181' FWL

TOPOGRAPHIC MAP  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 01-14-06







APPROXIMATE TOTAL PIPELINE DISTANCE = 1,148' +/-

# LEGEND:

- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



Kerr-McGee Oil & Gas Onshore LP

NBU #920-15C

SECTION 15, T9S, R20E, S.L.B.&M.

684' FNL 2181' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

11	18	05
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 01-14-06

**D**  
TOPO



# Kerr-McGee Oil & Gas Onshore LP

NBU #920-15C

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 15, T9S, R20E, S.L.B.&M.

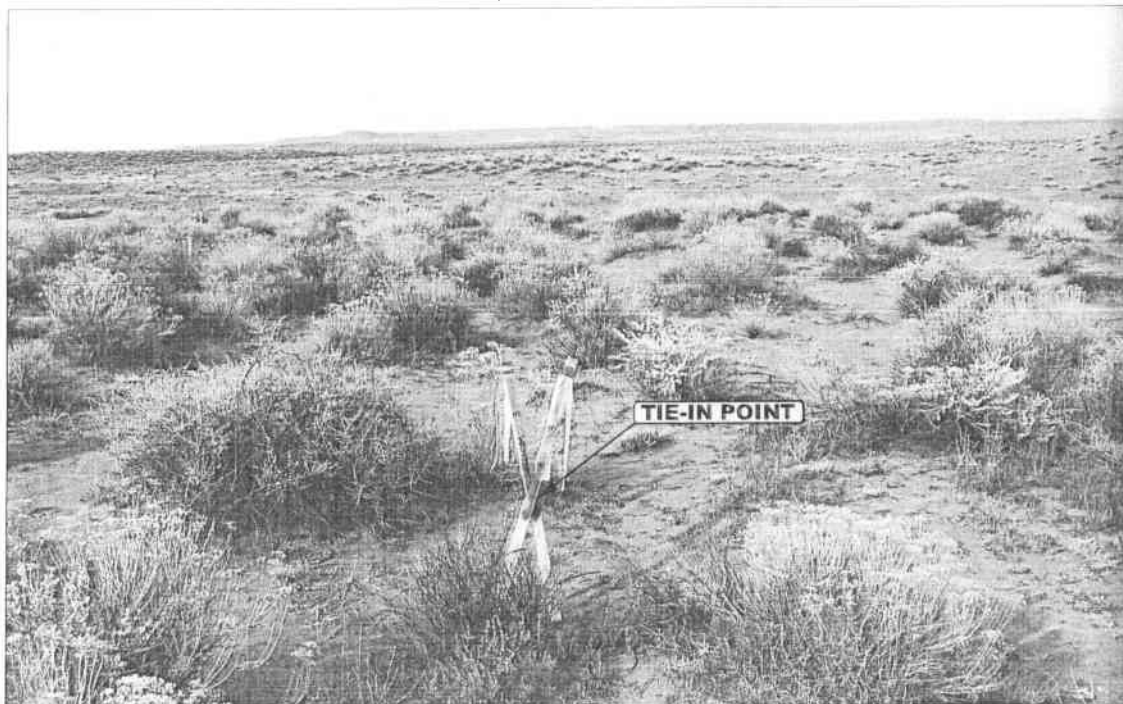


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW OF PIPELINE

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

11 18 05  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.K.

DRAWN BY: C.P.

REVISED: 01-14-06

# Kerr-McGee Oil & Gas Onshore LP

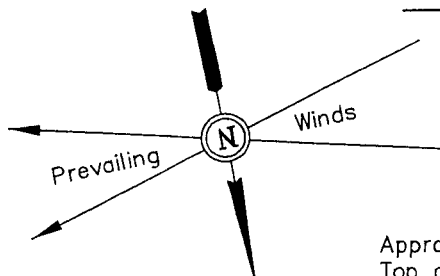
FIGURE #1

## LOCATION LAYOUT FOR

NBU #920-15C

SECTION 15, T9S, R20E, S.L.B.&M.

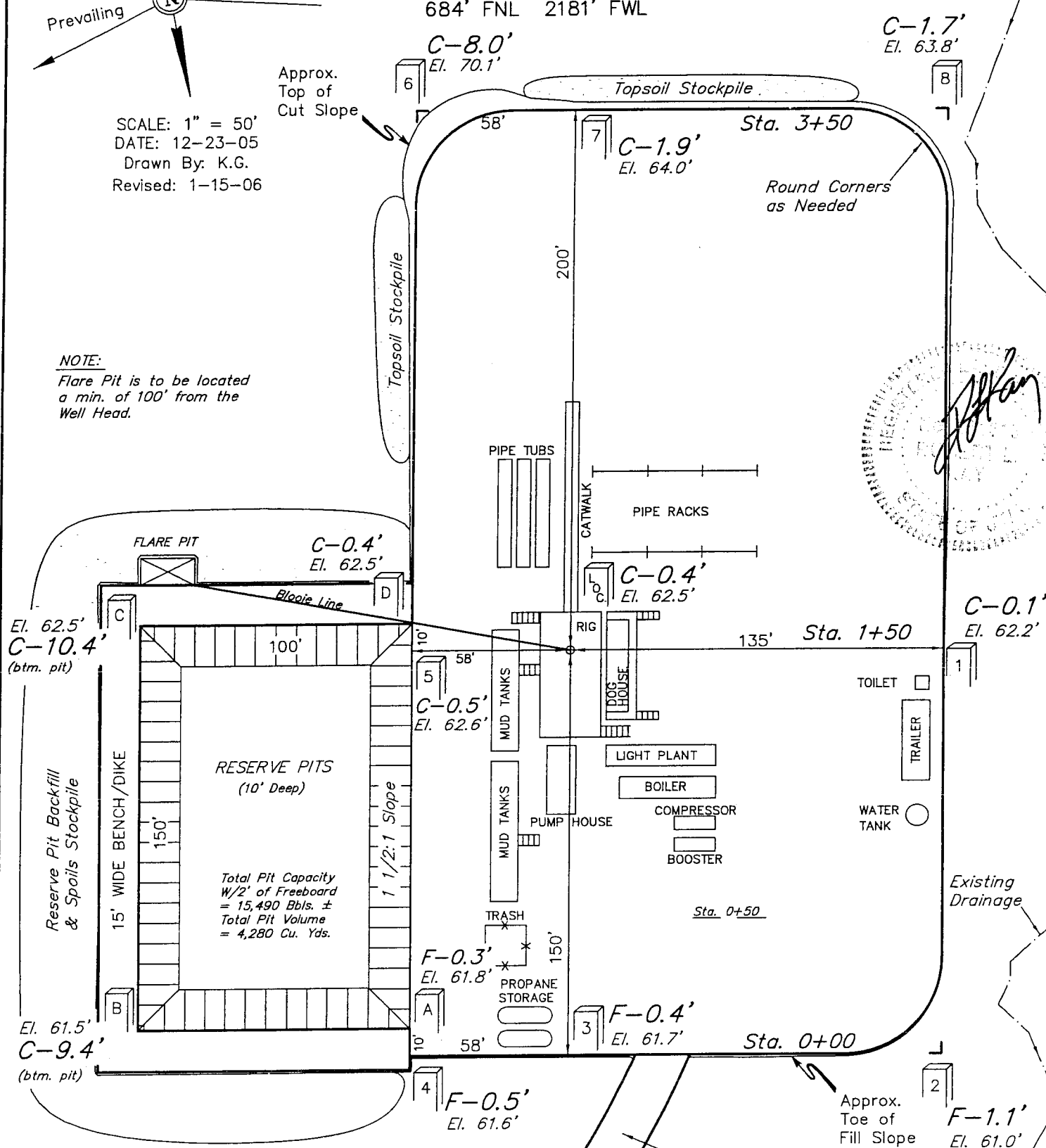
684' FNL 2181' FWL



SCALE: 1" = 50'  
DATE: 12-23-05  
Drawn By: K.G.  
Revised: 1-15-06

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 4762.5'

FINISHED GRADE ELEV. AT LOC. STAKE = 4762.1'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

NBU #920-15C

SECTION 15, T9S, R20E, S.L.B.&M.

684' FNL 2181' FWL

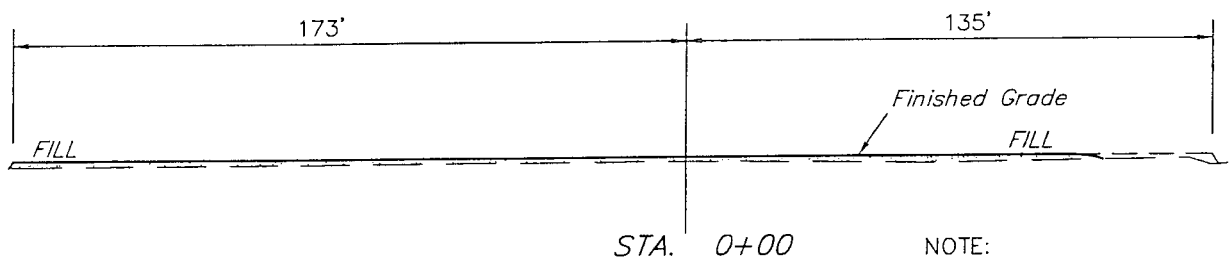
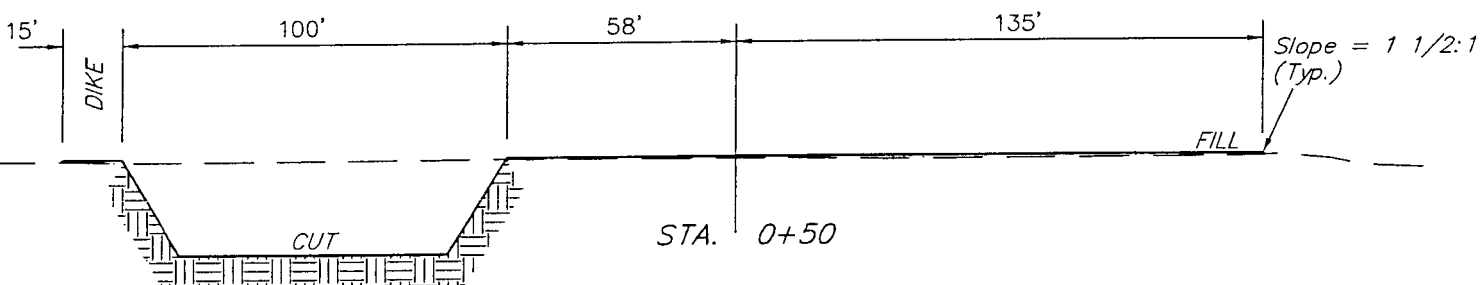
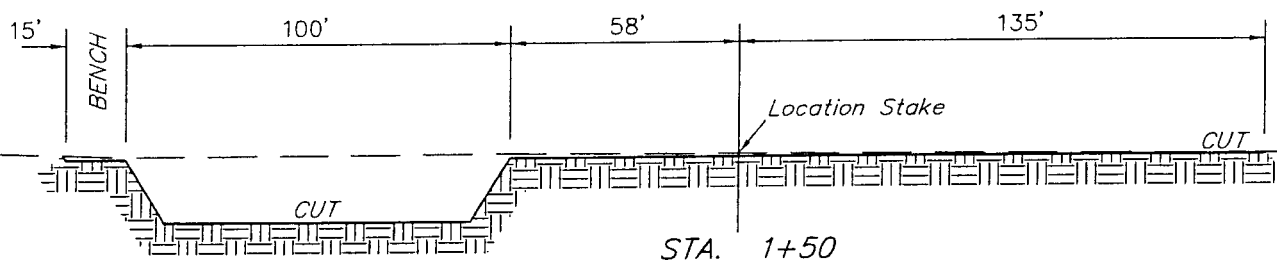
1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 12-23-05  
Drawn By: K.G.  
Revised: 1-15-06

Preconstruction  
Grade

58' 135'

STA. 3+50



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT  
(12") Topsoil Stripping = 3,390 Cu. Yds.  
Remaining Location = 3,990 Cu. Yds.  
  
TOTAL CUT = 7,380 CU.YDS.  
FILL = 1,850 CU.YDS.

### NOTE:

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

EXCESS MATERIAL = 5,530 Cu. Yds.  
Topsoil & Pit Backfill = 5,530 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/10/2006

API NO. ASSIGNED: 43-047-37896

WELL NAME: NBU 920-15C

OPERATOR: WESTPORT OIL & GAS CO ( N2115 )

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NENW 15 090S 200E

SURFACE: 0684 FNL 2181 FWL

BOTTOM: 0684 FNL 2181 FWL

COUNTY: Uintah

LATITUDE: 40.04072 LONGITUDE: -109.6539

UTM SURF EASTINGS: 614840 NORTHINGS: 4432935

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

Tech Review

Initials

Date

Engineering

Geology

Surface

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0144868

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. CO-1203 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. 43-8496 )

☒ RDCC Review (Y/N)  
(Date: )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.

Unit: NATURAL BUTTES

\_\_\_ R649-3-2. General

Siting: 460' From Qtr/Qtr & 920' Between Wells

\_\_\_ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-3-99

Siting: 460' to a body of water

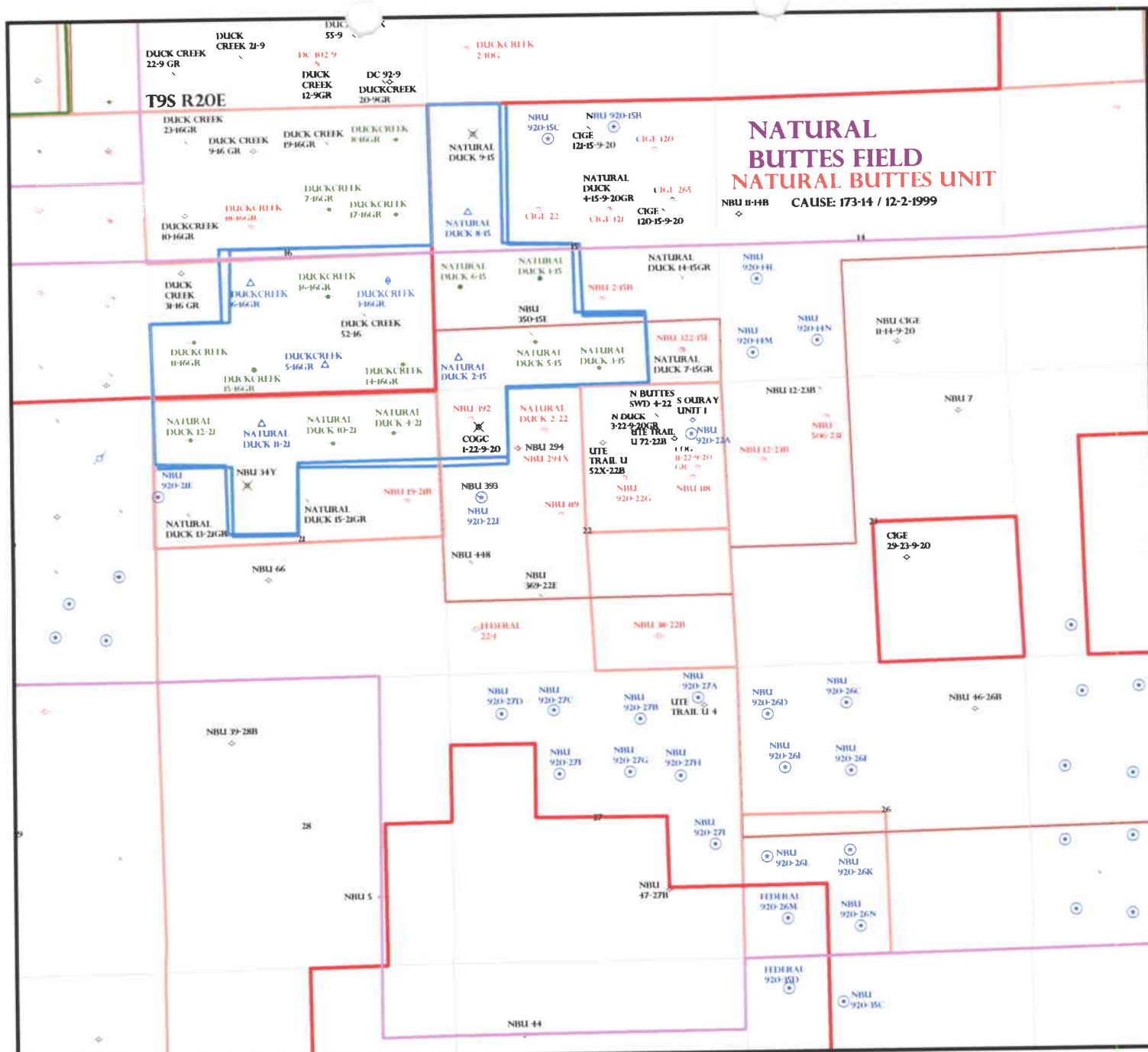
\_\_\_ R649-3-11. Directional Drill

COMMENTS:

*See Separate File*

STIPULATIONS:

*1- Federal Approval*  
*2- Oil Shale*



OPERATOR: WESTPORT O&G CO (N2115)

SEC: 14,15,21,22,27 T. 10S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

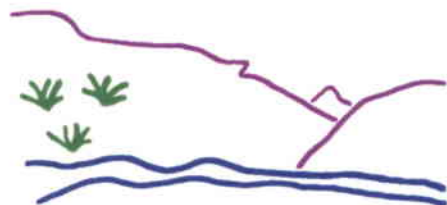
CAUSE: 173-14 / 12-2-1999

Field Status  
 ABANDONED  
 ACTIVE  
 COMBINED  
 INACTIVE  
 PROPOSED  
 STORAGE  
 TERMINATED

Unit Status  
 EXPLORATORY  
 GAS STORAGE  
 NF PP OIL  
 NF SECONDARY  
 PENDING  
 PI OIL  
 PP GAS  
 PP GEOTHERML  
 PP OIL  
 SECONDARY  
 TERMINATED

#### Wells Status

GAS INJECTION  
 GAS STORAGE  
 LOCATION ABANDONED  
 NEW LOCATION  
 PLUGGED & ABANDONED  
 PRODUCING GAS  
 PRODUCING OIL  
 SHUT-IN GAS  
 SHUT-IN OIL  
 TEMP. ABANDONED  
 TEST WELL  
 WATER INJECTION  
 WATER SUPPLY  
 WATER DISPOSAL  
 DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
 DATE: 16-MARCH-2006

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

March 17, 2006

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 Plan of Development Natural Buttes Unit Uintah  
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-37910	NBU 1021-24I Sec 24 T10S R21E 2272 FSL 0870 FEL	
43-047-37911	NBU 1021-24C Sec 24 T10S R21E 0626 FNL 1887 FWL	
43-047-37912	NBU 1021-24B Sec 24 T10S R21E 0905 FNL 1648 FEL	
43-047-37913	NBU 1021-25G Sec 25 T10S R21E 2445 FNL 2079 FEL	
43-047-37914	NBU 1021-25H Sec 25 T10S R21E 2377 FNL 0127 FEL	
43-047-37917	NBU 1021-25E Sec 25 T10S R21E 2301 FNL 0183 FWL	
43-047-37907	NBU 1021-03L Sec 03 T10S R21E 2618 FSL 0315 FWL	
43-047-37908	NBU 1021-03D Sec 03 T10S R21E 0285 FNL 0915 FWL	
43-047-37909	NBU 1021-03H Sec 03 T10S R21E 1884 FNL 0506 FEL	
43-047-37894	NBU 920-14L Sec 14 T09S R20E 1907 FSL 0707 FWL	
43-047-37895	NBU 920-15B Sec 15 T09S R20E 0501 FNL 1876 FEL	
43-047-37896	NBU 920-15C Sec 15 T09S R20E 0684 FNL 2181 FWL	
43-047-37897	NBU 920-21E Sec 21 T09S R20E 1851 FNL 0032 FWL	
43-047-37898	NBU 920-22A Sec 22 T09S R20E 0937 FNL 0584 FEL	
43-047-37899	NBU 920-27A Sec 27 T09S R20E 0579 FNL 0728 FEL	
43-047-37900	NBU 920-27G Sec 27 T09S R20E 1907 FNL 2023 FEL	
43-047-37901	NBU 920-27F Sec 27 T09S R20E 1888 FNL 2014 FWL	
43-047-37902	NBU 920-27C Sec 27 T09S R20E 0699 FNL 1937 FWL	
43-047-37903	NBU 920-27B Sec 27 T09S R20E 0934 FNL 1805 FEL	
43-047-37904	NBU 920-27D Sec 27 T09S R20E 0731 FNL 0971 FWL	
43-047-37905	NBU 920-27I Sec 27 T09S R20E 2152 FSL 0491 FEL	
43-047-37906	NBU 920-27H Sec 27 T09S R20E 2023 FNL 1089 FEL	

Page 2

Our records indicate the NBU 1021-24I and the 1021-24B are closer than 460 feet from uncommitted land within the Natural Butte Unit. The NBU 1021-25H is located **outside** of the Natural Buttes Unit and is closer than 460 feet from the Unit Boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron



## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

March 20, 2006

Westport Oil & Gas Company, LP  
1368 South 1200 East  
Vernal, UT 84078

Re: Natural Buttes Unit 920-15C Well, 684' FNL, 2181' FWL, NE NW, Sec. 15,  
T. 9 South, R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37896.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office



**Operator:** Westport Oil & Gas Company, LP  
**Well Name & Number** Natural Buttes Unit 920-15C  
**API Number:** 43-047-37896  
**Lease:** UTU-0144868

**Location:** NE NW                      **Sec.** 15                      **T.** 9 South                      **R.** 20 East

### **Conditions of Approval**

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

5. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**1/6/2006**

**FROM: (Old Operator):**

N2115-Westport Oil & Gas Co., LP  
 1368 South 1200 East  
 Vernal, UT 84078  
 Phone: 1-(435) 781-7024

**TO: ( New Operator):**

N2995-Kerr-McGee Oil & Gas Onshore, LP  
 1368 South 1200 East  
 Vernal, UT 84078  
 Phone: 1-(435) 781-7024

CA No.		Unit:		NATURAL BUTTES UNIT				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- a. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- b. If **NO**, the operator was contacted on: \_\_\_\_\_
- 5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred
- 5c. Reports current for Production/Disposition & Sundries on: ok
- 6. Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet
- 7. Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006
- 8. Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- 9. Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 5/15/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/15/2006
- Bond information entered in RBDMS on: 5/15/2006
- Fee/State wells attached to bond in RBDMS on: 5/16/2006
- Injection Projects to new operator in RBDMS on: \_\_\_\_\_
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: CO1203
- Indian well(s) covered by Bond Number: RLB0005239
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG  
The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-McGEE OIL & GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

5. Lease Serial No.

MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

MUTIPLE WELLS

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other CHANGE OF OPERATOR

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.

KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

RECEIVED

MAY 10 2006

DIV. OF OIL, GAS & MINING

BLM BOND = C01203

BIA BOND = RLB0005237

APPROVED 5/16/06

Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

RANDY BAYNE

Title

DRILLING MANAGER

Signature

Date

May 9, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

MUTIPLE WELLS

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY L.P.

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

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☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other CHANGE OF OPERATOR

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

APPROVED 5/16/06

Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED

MAY 10 2006

DIV OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

BRAD LANEY

Signature

Title

ENGINEERING SPECIALIST

Date

May 9, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Brad Laney

Title

Office

Date

5-9-06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Colorado State Office  
2850 Youngfield Street  
Lakewood, Colorado 80215-7076

IN REPLY REFER TO:

CO922 (MM)  
3106  
COC017387 et. al.

March 23, 2006

### NOTICE

Kerr-McGee Oil & Gas Onshore L.P. :  
1999 Broadway, Suite 3700 : Oil & Gas  
Denver, CO 80202 :

#### Merger/Name Change - Recognized

On February 28, 2006 this office received acceptable evidence of the following mergers and name conversion:

Kerr-McGee Oil & Gas Onshore L.P., a Delaware Limited Partnership, and Kerr-McGee Oil & Gas Onshore LLC, a Delaware Limited Partnership merger with and into Westport Oil and Gas Company L.P., a Delaware Limited Partnership, and subsequent Westport Oil & Gas Company L.P. name conversion to Kerr-McGee Oil & Gas Onshore L.P.

For our purposes the merger and name conversion was effective January 4, 2006, the date the Secretary of State of Delaware authenticated the mergers and name conversion.

Kerr-McGee Oil & Gas Onshore L.P. provided a list of oil and gas leases held by the merging parties with the request that the Bureau of Land Management change all their lease records from the named entities to the new entity, Kerr-McGee Oil & Gas Onshore L.P. In response to this request each state is asked to retrieve their own list of leases in the names of these entities from the Bureau of Land Management's (BLM) automated LR2000 data base.

The oil and gas lease files identified on the list provided by Kerr-McGee Oil & Gas Onshore L.P. have been updated as to the merger and name conversion. We have not abstracted the lease files to determine if the entities affected by the acceptance of these documents holds an interest in the lease, nor have we attempt to identify leases where the entity is the operator on the ground that maintains vested record title or operating rights interests. If additional documentation, for change of operator, is required you will be contacted directly by the appropriate Field Office. The Mineral Management Services (MMS) and other applicable BLM offices were notified of the merger with a copy of this notice

Please contact this office if you identify additional leases where the merging party maintains an interest, under our jurisdiction, and we will document the case files with a copy of this notice. If the leases are under the jurisdiction of another State Office that information will be forwarded to them for their action.

Three riders accompanied the merger/name conversion documents which will add Kerr-McGee Oil and Gas Onshore LLC as a principal to the 3 Kerr-McGee bonds maintained by the Wyoming State Office. These riders will be forward to them for their acceptance.

The Nationwide Oil & Gas Continental Casualty Company Bond #158626364 (BLM Bond #CO1203), maintained by the Colorado State Office, will remain in full force and effect until an assumption rider is accepted by the Wyoming State Office that conditions their Nationwide Safeco bond to accept all outstanding liability on the oil and gas leases attached to the Colorado bond.

If you have questions about this action you may call me at 303.239.3768.

/s/Martha L. Maxwell  
Martha L. Maxwell  
Land Law Examiner  
Fluid Minerals Adjudication

**Attachment:**

List of OG Leases to each of the following offices:

MMS MRM, MS 357B-1

WY, UT, NM/OK/TX, MT/ND, WY State Offices

CO Field Offices

Wyoming State Office

Rider #1 to Bond WY2357

Rider #2 to Bond WY1865

Rider #3 to Bond WY1127



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-922)

March 27, 2006

### Memorandum

To: Vernal Field Office

From: Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the merger recognized by the Bureau of Land Management, Colorado State Office. We have updated our records to reflect the merger from Westport Oil and Gas Company L.P. into Kerr-McGee Onshore Oil and Gas Company. The merger was approved effective January 4, 2006.

Chief, Branch of  
Fluid Minerals

### Enclosure

Approval letter from BLM COSO (2 pp)

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare  
Dave Mascarenas  
Susan Bauman

RECEIVED

MAR 28 2006

DIV. OF OIL, GAS & MINERALS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR MCGEE OIL AND GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

435-781-7003

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

684' FNL, 2181' FWL  
NENW, SEC 15-T9S-R20E

5. Lease Serial No.

UTU-0144868

6. If Indian, Allottee or Tribe Name

TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.

NATURAL BUTTES UNIT

8. Well Name and No.

NBU 920-15C

9. API Well No.

4304737896

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other APD EXTENSION
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	DOGM
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE OPERATOR REQUESTS AUTHORIZATION FOR A ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION SO THAT THE DRILLING OPERATIONS MAY BE COMPLETED. THE ORIGINAL APD WAS APPROVED BY THE DIVISION OF OIL, GAS AND MINING ON MARCH 21, 2006.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 02-21-07  
By: [Signature]

2207  
RM

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

RAMEY HOOPES

Title

REGULATORY CLERK

Signature

[Signature: Ramey Hoopes]

Date

FEBURARY 12, 2007

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

RECEIVED

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

DIV. OF OIL, GAS & MINING



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737896  
**Well Name:** NBU 920-15C  
**Location:** NENW, SEC 15-T9S-R20E  
**Company Permit Issued to:** KERR MCGEE OIL AND GAS ONSHORE LP  
**Date Original Permit Issued:** 3/20/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Ramey Hoopes  
Signature

2/12/2007

Date

Title: Regulatory Clerk

Representing: Kerr McGee Oil & Gas Onshore LP

RECEIVED

FEB 20 2007

DIV. OF OIL, GAS & MINING

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAR 02 2006

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-0144868</b>
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>TRIBAL SURFACE</b>
2. Name of Operator <b>KERR MCGEE OIL AND GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No. <b>NATURAL BUTTES UNIT</b>
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>	3b. Phone No. (include area code) <b>(435) 781-7003</b>	8. Lease Name and Well No. <b>NBU 920-15C</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NENW 684'FNL, 2181'FWL</b> At proposed prod. Zone		9. API Well No. <b>43-047-37896</b>
14. Distance in miles and direction from nearest town or post office* <b>8.65 MILES SOUTHEAST OF OURAY, UTAH</b>		10. Field and Pool, or Exploratory <b>NATURAL BUTTES</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>684'</b>	16. No. of Acres in lease <b>320.00</b>	11. Sec., T., R., M., or Blk, and Survey or Area <b>SECTION 15-T9S-R20E</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>	19. Proposed Depth <b>10,400'</b>	12. County or Parish <b>UINTAH</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4762'GL</b>	22. Approximate date work will start* <b>UPON APPROVAL</b>	13. State <b>UTAH</b>
17. Spacing Unit dedicated to this well <b>40.00</b>		20. BLM/BIA Bond No. on file <b>CO-1203 W42357 W4B000291</b>
23. Estimated duration <b>TO BE DETERMINED</b>		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |   |
|---|---|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).   |
| 2. A Drilling Plan.   | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature <i>Ramey Hoopes</i>	Name (Printed/Typed) <b>RAMEY HOOPES</b>	Date <b>4/27/2006</b>
Title <b>REGULATORY CLERK</b>		
Approved by (Signature) <i>Steve Kevorka</i>	Name (Printed/Typed) <b>Steve Kevorka</b>	Date <b>1-16-2008</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>	Office <b>VERNAL FIELD OFFICE</b>	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

JAN 23 2008

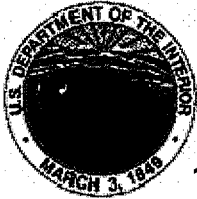
NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

UDOGM

No NOS

07BM4915A

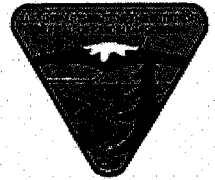


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Kerr-McGee Oil & Gas Onshore LP  
Well No: NBU 920-15C  
API No: 43-047-37896

Location: NENW, Sec. 15, T9S, R20E  
Lease No: UTU-0144868  
Agreement: Natural Buttes Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:		(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Additional Stipulations**

- Archeological monitoring.
- Round corner 8.

**General Conditions of Approval**

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.

- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Surface casing cement shall be brought up to the surface. To reach the surface, operator is required to pump additional cement beyond the stated amounts of sacks in application.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or



data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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OMB No. 1004-0135  
Expires November 30, 2000

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☐ Oil Well ☒ Gas Well ☐ Other

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UNIT #891008900A

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Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 2-26-2008

Initials: KS

Date: 02-25-08

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

SHEILA UPCHEGO

By:

Title

SENIOR LAND ADMIN SPECIALIST

Signature

Date

February 4, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED

FEB 25 2008

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737896  
**Well Name:** NBU 920-15C  
**Location:** NENW SEC. 15, T9S, R20E  
**Company Permit Issued to:** WESTPORT OIL & GAS COMPANY  
**Date Original Permit Issued:** 3/20/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

2/4/2008

Date

Title: SENOIR LAND ADMIN SPECIALIST

Representing: KERR-McGEE OIL & GAS ONSHORE LP

RECEIVED

FEB 25 2008

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-7024

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304737896	NBU 920-15C		NENW	15	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>B</i>	99999	<i>2900</i>	2/26/2008		<i>2/28/08</i>		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 02/26/2008 AT 12:30 PM							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

Title

2/27/2008

Date

**RECEIVED**

**FEB 27 2008**

(5/2000)

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**NE/NW SEC. 15, T9S, R20E 684'FNL, 2181'FWL**

5. Lease Serial No.

**UTU-0144868**

6. If Indian, Allottee or Tribe Name

**UTE TRIBE**

7. If Unit or CA/Agreement, Name and/or No.

**UNIT #891008900A**

**NATURAL BUTTES UNIT**

8. Well Name and No.

**NBU 920-15C**

9. API Well No.

**4304737896**

10. Field and Pool, or Exploratory Area

**NATURAL BUTTES**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>WELL SPUD</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

**MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.**

**SPUD WELL LOCATION ON 2/26/2008 AT 12:30 PM.**

**RECEIVED**  
**MAR 03 2008**  
**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**SENIOR LAND ADMIN SPECIALIST**

Signature

Date

**February 27, 2008**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

## SUNDRY NOTICES AND REPORTS ON WELLS

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-McGEE OIL &amp; GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NE/NW SEC. 15, T9S, R20E 684'FNL, 2181'FWL

5. Lease Serial No.

UTU-0144868

6. If Indian, Allottee or Tribe Name

UTE TRIBE

7. If Unit or CA/Agreement, Name and/or No.

UNIT #891008900A

NATURAL BUTTES UNIT

8. Well Name and No.

NBU 920-15C

9. API Well No.

4304737896

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH COUNTY, UTAH

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other SET SURFACE
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	CSG
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU CRAIGS AIR RIG ON 02/28/2008. DRILLED 12 1/4" SURFACE HOLE TO 2880'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT 250 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TAILED CMT W/ 260 SX PREM CLASS G @11.0 PPG 3.31 YIELD. GOOD RETURNS THROUGH OUT JOB 10 +/- BBL CMT TO PIT. RAN 200' OF 1" PIPE. CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE. GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD DOWN BACKSIDE GOOD CMT TO SURFACE AND FELL BACK. WORT

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

SHEILA UPCHEGO

Title

SENIOR LAND ADMIN SPECIALIST

Signature

Date

March 6, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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(Instructions on reverse)

RECEIVED

MAR 10 2008

DIV. OF OIL, GAS &amp; MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**NE/NW SEC. 15, T9S, R20E 684'FNL, 2181'FWL**

5. Lease Serial No.

**UTU-0144868**

6. If Indian, Allottee or Tribe Name

**UTE TRIBE**

7. If Unit or CA/Agreement, Name and/or No.

**UNIT #891008900A**

**NATURAL BUTTES UNIT**

8. Well Name and No.

**NBU 920-15C**

9. API Well No.

**4304737896**

10. Field and Pool, or Exploratory Area

**NATURAL BUTTES**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>FINAL DRILLING OPERATIONS</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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FINISHED DRILLING FROM 2880' TO 10,645' ON 05/23/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/705 SX PREM CLASS G @12.5 PPG 2.04 YIELD. TAILED CMT W/1400 SX 50/50 POZ @ 14.3 PPG 1.31 YIELD. DROP PLUG & DISPLACE W/163 BBLS WATER BUMP PLUG W/500 OVER FINAL CIRC 2600 PSI PLUG HELD GOT 23 BBLS CMT TO PIT. SET CSG HANGER W/80K STRING & TEST HANGER & L/D LANDING JT. NIPPLE DOWN BOPS WASH AND CLEAN OUT MUD TANKS.

RELEASED ENSIGN RIG 83 ON 05/24/2008 AT 2230 HRS.

**RECEIVED**

**JUN 09 2008**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**SENIOR LAND ADMIN SPECIALIST**

Signature

Date

**May 28, 2008**

**DIV. OF OIL, GAS & MINING**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE – Other instructions on reverse side***

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**NE/NW SEC. 15, T9S, R20E 684'FNL, 2181'FWL**

5. Lease Serial No.

**UTU-0144868**

6. If Indian, Allottee or Tribe Name

**UTE TRIBE**

7. If Unit or CA/Agreement, Name and/or No.

**UNIT #891008900A**

**NATURAL BUTTES UNIT**

8. Well Name and No.

**NBU 920-15C**

9. API Well No.

**4304737896**

10. Field and Pool, or Exploratory Area

**NATURAL BUTTES**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
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<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>PRODUCTION START-UP</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 07/21/2008 AT 9:10 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

**RECEIVED**  
**JUL 28 2008**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**REGULATORY ANALYST**

Signature

Date

**July 21, 2008**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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Wins No.: 94881

NBU 920-15C

## Well Operations Summary Long

Operator KERR MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 02/26/2008	GL 4,762	KB 4781	ROUTE
API 4304737896	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Long/Lat.: 40.04084 / -109.65471	Q-Q/Sect/Town/Range: NENW / 15 / 9S / 20E			Footages: 684.00' FNL 2,181.00' FWL	

## Wellbore: NBU 920-15C

MTD	TVD	PBMD	PBTVD
10,645	10,642		
EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	START DATE: 2/26/2008	
	OBJECTIVE: DEVELOPMENT	END DATE: 5/24/2008	
	OBJECTIVE 2:	DATE WELL STARTED PROD.:	
	REASON:	Event End Status: COMPLETE	

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
CRAIGS / UNK	02/28/2008	02/28/2008	02/28/2008	02/28/2008	03/04/2008	03/04/2008	03/04/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation	MD:
2/26/2008	SUPERVISOR: LEW WELDON							59
	12:30 - 18:30	6.00	DRLCON	02		P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1230 HR 2/26/08 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOPR RIG 54 BLM AND STATE NOTFIED OF SPUD	
	18:30 - 18:30	0.00	DRLCON				WOAR	
2/28/2008	SUPERVISOR: LEW WELDON							840
	12:30 - 0:00	11.50	DRLSUR	02		P	MOVE IN AND RIG UP CRAIGS AIR RIG SPUD WELL @ 1230 HR 2/28/08 HIT SOME FREASH WATER @ 720' TOOHH AND RIH WITH TRICONE DA AT REPORT TIME	
2/29/2008	SUPERVISOR: LEW WELDON							960
	0:00 - 7:00	7.00	DRLSUR	02		P	DRILL TO 960' WAS DECIDED TO PUMP CMT PLUG TOOHH AND RIH OPEN ENDED WAIT ON BJ CMT CREW	
	7:00 - 14:30	7.50	DRLSUR	12		P	WAIT ON BJ CMT CREW	
	14:30 - 15:00	0.50	DRLSUR	15		P	MIX AND PUMP 250 SKS @ 15.8# 1.15 5.0 GAL SK CMT PLUG TO SQUEEZE WATER BACK WELL CIRCULATED DURING CMT JOB	
	15:00 - 15:30	0.50	DRLSUR	05		P	TOOHH AND WAIT ON CMT	
	15:30 - 0:00	8.50	DRLSUR	12		P	WAIT ON CMT PREPAIR TO RIH WITH TRICONE AND START DRILLING CMT AT REPORT TIME	
3/1/2008	SUPERVISOR: LEW WELDON							1,660
	0:00 - 12:00	12.00	DRLSUR	02		P	RIH TAG CMT @ 540' DRILL CMT TO 850' DRILLING AHEAD	

Wins No.: 94881		NBU 920-15C		API No.: 4304737896	
	12:00 - 0:00	12.00	DRLSUR	02	P DRILLING AHEAD CIRCULATING WITH SKID PUMP WELL CIRCULATING TO PIT 1660'
3/2/2008	SUPERVISOR: LEW WELDON				MD: 2,690
	0:00 - 12:00	12.00	DRLSUR	02	P RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 2420'
	12:00 - 0:00	12.00	DRLSUR	02	P RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 2690'
3/3/2008	SUPERVISOR: LEW WELDON				MD: 2,880
	0:00 - 11:00	11.00	DRLSUR	02	P RIG T/D @ 2880' CONDITION HOLE 1 HR
	11:00 - 15:00	4.00	DRLSUR	05	P TRIP DP OUT OF HOLE
	15:00 - 19:00	4.00	DRLSUR	11	P RUN 2829' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	19:00 - 20:00	1.00	DRLSUR	15	P RIG UP BJ CEMENT 1ST STAGE WITH 260 SKS LEAD @ 11# 3.31 22 GAL SK AND 200 SKS TAIL @ 15.8 # 1.15 5.0 GAL SK GOOD RETURNS THRUOUT JOB + - 10 BBL LEAD CMT TO PIT
	20:00 - 20:30	0.50	DRLSUR	15	P 1ST TOP JOB 140 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC
	20:30 - 23:00	2.50	DRLSUR	15	P 2ND TOP JOB 60 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE RELEASE CMT CREW
	23:00 - 23:00	0.00	DRLSUR		NO VISIBLE LEAKS PIT 3/4 FULL WORT
5/6/2008	SUPERVISOR: SID ARMSTRONG				MD: 2,880
	3:00 - 0:00	21.00	DRLPRO	01 E	P RDRT & MOVE RIG & 100% MOVED & 50 % R/U
5/7/2008	SUPERVISOR: SID ARMSTRONG				MD: 2,880
	0:00 - 22:00	22.00	DRLPRO	01 B	P RURT
	22:00 - 0:00	2.00	DRLPRO	13 C	P TEST B.O.P'S & PIPE RAM WOULDN'T TEST REPLACED RAM BLOCKS & TESTED OK.
5/8/2008	SUPERVISOR: SID ARMSTRONG				MD: 3,535
	0:00 - 5:00	5.00	DRLPRO	13 C	P FINSH TESTING B.O.P'S
	5:00 - 12:00	7.00	DRLPRO	05 A	P INSTALL WEAR BUSHING & R/U LAYDOWN MACHINE & P/U BHA & D.P
	12:00 - 13:30	1.50	DRLPRO	05 A	P TORQUE KELLY & INSATALL ROTHEAD & DRIVERS

Wins No.: 94881

NBU 920-15C

API No.: 4304737896

12:00 - 13:30	1.50	DRLPRO	05	A	P	TORQUE KELLY & INSATALL ROTHEAD & DRIVERS
13:30 - 15:30	2.00	DRLPRO	02	F	P	DRILL CEMENT & F.E.
15:30 - 16:00	0.50	DRLPRO	02	A	P	DRILL F/ 2880 TO 2953 - 73' @ 146 FPH W/ 8.3 MUD WT
16:00 - 16:30	0.50	DRLPRO	09	A	P	RUN SURVEY @ 2870 DEV .63
16:30 - 0:00	7.50	DRLPRO	02	A	P	DRILL F/ 2953 TO 3535 - 582' @ 77.6 FPH W/ 8.5 MUD VIS 34

5/9/2008

SUPERVISOR: SID ARMSTRONG

MD: 4,940

0:00 - 1:00	1.00	DRLPRO	02	A	P	DRILL F/ 3535 TO 3604 - 69' - @ 69.0 FPH W/ 8.5 PPG VIS 38
1:00 - 2:00	1.00	DRLPRO	09	A	P	SURVEY @ 3604 - DEV 1.65
2:00 - 11:00	9.00	DRLPRO	02	A	P	DRILL F/ 3604 - 4190 - 586' - @ 65.1 FPH W/ 8.7 PPG VIS 40
11:00 - 11:30	0.50	DRLPRO	09	A	P	SURVEY @ 4145 - DEV 2.08
11:30 - 12:30	1.00	DRLPRO	02	A	P	DRILL F/ 4190 - 4253 - 63' - @ 63.0 FPH W/ 8.8 PPG VIS 42
12:30 - 13:00	0.50	DRLPRO	06	A	P	SER RIG
13:00 - 0:00	11.00	DRLPRO	02	A	P	DRILL F/ 4253 TO 4940 - 687' - @ 62.4 FPH W/ 9.4 PPG VIS 42

5/10/2008

SUPERVISOR: SID ARMSTRONG

MD: 5,798

0:00 - 9:00	9.00	DRLPRO	02	A	P	DRILL F/ 4940 TO 5306 - 366' @ 40.6 FPH W/ 9.7 PPG VIS 42
9:00 - 9:30	0.50	DRLPRO	09	A	P	SURVAY @ 5206 - DEV 1.45
9:30 - 11:30	2.00	DRLPRO	02	A	P	DRILL F/ 5306 TO 5398 - 92' @ 46.0 FPH W/ 9.7 PPG VIS 42
11:30 - 12:00	0.50	DRLPRO	06	A	P	SER RIG
12:00 - 0:00	12.00	DRLPRO	02	A	P	DRILL F/ 5398 TO 5798 - 400' @ 33.3 FPH W/ 10.2 PPG VIS 42

5/11/2008

SUPERVISOR: SID ARMSTRONG

MD: 6,740

0:00 - 12:00	12.00	DRLPRO	02	A	P	DRILL F/ 5798 TO 6293 - 495' @ 41.25 FPH W/ 10.2 PPG VIS 42
12:00 - 12:30	0.50	DRLPRO	06	A	P	SER RIG

12:00 - 12:30 0.50 DRLPRO 06 A P SER RIG  
 12:30 - 0:00 11.50 DRLPRO 02 A P DRILL F/ 6293 TO 6740 - 447' @ 38.8 FPH W/ 10.2 PPG VIS 42

5/12/2008 SUPERVISOR: SID ARMSTRONG MD: 7,370

0:00 - 14:00 14.00 DRLPRO 02 B P DRILL F/ 6740 TO 7243 - 503' @ 35.9 FPH W/ 10.5 PPG VIS 43  
 14:00 - 14:30 0.50 DRLPRO 06 A P SER RIG  
 14:30 - 19:30 5.00 DRLPRO 02 B P DRILL F/ 7243 TO 7370 - 127' @ 25.4 FPH - W/ 10.7 PPG VIS 43  
 19:30 - 0:00 4.50 DRLPRO 05 A P T.F.N.B & MUD MOTOR

5/13/2008 SUPERVISOR: SID ARMSTRONG MD: 7,900

0:00 - 5:00 5.00 DRLPRO 05 A P T.F.N.B & MUD MOTOR  
 5:00 - 6:00 1.00 DRLPRO 03 E P WASH 70' TO BTM ( NO FILL )  
 6:00 - 15:00 9.00 DRLPRO 02 B P DRILL F/ 7370 TO 7675 - 305' - @ 33.8 FPH W/ 11.1 PPG VIS 44  
 15:00 - 15:30 0.50 DRLPRO 06 A P SER RIG  
 15:30 - 0:00 8.50 DRLPRO 02 B P DRILL F/ 7675 TO 7900 - 225' @ 26.4 FPH W/ 11.4 PPG VIS 44

5/14/2008 SUPERVISOR: SID ARMSTRONG MD: 8,353

0:00 - 11:30 11.50 DRLPRO 02 B P DRILL F/ 7900 TO 8070 - 170' @ FPH 14.7 W/ 11.5 PPG VIS 45  
 11:30 - 12:00 0.50 DRLPRO 06 A P SER RIG  
 12:00 - 17:00 5.00 DRLPRO 02 B P DRILL F/ 8070 TO 8266 - 196' @ 39.2 FPH W/ 11.5 PPG VIS 45  
 17:00 - 19:30 2.50 DRLPRO 07 A P REPAIR & C/O SWIVEL PACKING  
 19:30 - 0:00 4.50 DRLPRO 02 B P DRILL F/ 8266 TO 8353 - 87' @ 19.3 - W/ 11.5 PPG VIS 45

5/15/2008 SUPERVISOR: SID ARMSTRONG MD: 8,632

0:00 - 7:00 7.00 DRLPRO 02 B P DRILL F/ 8353 TO 8490 - 137' @ 19.5 FPH W/ 11.5 PPG VIS 45  
 7:00 - 16:30 9.50 DRLPRO 05 A P T.F.N.B & WASH 45' TO BTM ( NO FILL )  
 16:30 - 0:00 7.50 DRLPRO 02 B P DRILL F/ 8490 TO 8632 - 142' @ 18.9 FPH W/ 11.5 PPG VIS 45

Wins No.: 94881 NBU 920-15C API No.: 4304737896

	16:30 - 0:00	7.50	DRLPRO	02	B	P	DRILL F/ 8490 TO 8632 - 142' @ 18.9 FPH W/ 11.5 PPG VIS 45	
5/16/2008	SUPERVISOR: SID ARMSTRONG							MD: 8,900
	0:00 - 13:30	13.50	DRLPRO	02	B	P	DRILL F/ 8632 TO 8756 - 124' @ 9.1 FPH W/ 11.5 PPG VIS 45	
	13:30 - 14:00	0.50	DRLPRO	06	A	P	SER RIG	
	14:00 - 0:00	10.00	DRLPRO	02	B	P	DRILL F/ 8756 TO 8900 - 144' @ 14.4 FPH W/ 11.5 PPG VIS 45	
5/17/2008	SUPERVISOR: SID ARMSTRONG							MD: 9,096
	0:00 - 13:00	13.00	DRLPRO	02	B	P	DRILL F/ 8900 TO 9096 - 196' - @ 15.0 FPH W/ 11.7 PPG VIS 46	
	13:00 - 0:00	11.00	DRLPRO	05	A	P	T.F.N.B & MUD MOTOR & WASH REAM F/ 5074 TO 5180 & CONT. T.I.H	
5/18/2008	SUPERVISOR: SID ARMSTRONG							MD: 9,370
	0:00 - 5:00	5.00	DRLPRO	05	A	P	T.I.H & TAG @ 6385 & W/R F/ 6385 TO 6445 & CONT. T.I.H & WASH 70' TO BTM ( NO FILL )	
	5:00 - 12:30	7.50	DRLPRO	02	B	P	DRILL F/ 9096 TO 9219 - 123' @ 16.4 FPH W/ 12.0 PPG VIS 45	
	12:30 - 13:00	0.50	DRLPRO	06	A	P	SER RIG	
	13:00 - 0:00	11.00	DRLPRO	02	B	P	DRILL F/ 9219 TO 9370 - 151' @ 13.7 FPH W/ 12.0 PPG VIS 45	
5/19/2008	SUPERVISOR: SID ARMSTRONG							MD: 9,725
	0:00 - 15:30	15.50	DRLPRO	02	B	P	DRILL F/ 9370 TO 9590 - 220' @ 14.1 FPH W/ 12.5 PPG VIS 45	
	15:30 - 16:00	0.50	DRLPRO	06	A	P	SER RIG	
	16:00 - 0:00	8.00	DRLPRO	02	B	P	DRILL F/ 9590 TO 9725 - 135' @ 16.8 FPH W/ 12.5 PPG VIS 45	
5/20/2008	SUPERVISOR: SID ARMSTRONG							MD: 10,120
	0:00 - 13:30	13.50	DRLPRO	02	B	P	DRILL F/ 9725 TO 9958 - 233' @ 17.2 FPH W/ 12.7 PPG VIS 45	
	13:30 - 14:00	0.50	DRLPRO	06	A	P	SER RIG	
	14:00 - 0:00	10.00	DRLPRO	02	B	P	DRILL F/ 9958 TO 10120 - 162' @ 16.2 FPH W/ 12.9 PPG VIS 45	
5/21/2008	SUPERVISOR: SID ARMSTRONG							MD: 10,235
	0:00 - 9:00	9.00	DRLPRO	02	B	P	DRILL F/ 10120 TO 10225 - 105' @ 11.6 FPH W/ 12.9 PPG VIS 45	

Wins No.: 94881		NBU 920-15C					API No.: 4304737896	
	0:00 - 9:00	9.00	DRLPRO	02	B	P	DRILL F/ 10120 TO 10225 - 105' @ 11.6 FPH W/ 12.9 PPG VIS 45	
	9:00 - 16:30	7.50	DRLPRO	05	A	P	T.F.N.B & BACK TO CASING SHOE	
	16:30 - 18:00	1.50	DRLPRO	06	D	P	CUT DRILLING LINE	
	18:00 - 22:00	4.00	DRLPRO	05	A	P	CONT. T.I.H & WASH 60' TO BTM ( NO FILL )	
	22:00 - 0:00	2.00	DRLPRO	02	B	P	DRILL F/ 10225 TO 10231- 6' @ 3.0 FPH W/ 12.9 PPG VIS 44	
5/22/2008	SUPERVISOR: SID ARMSTRONG						MD: 10,490	
	0:00 - 2:00	2.00	DRLPRO	02	B	P	DRILLF/ 10231 TO 10235 - 4' @ 2.0 FPH W/ 12.9 PPG VIS 45	
	2:00 - 13:00	11.00	DRLPRO	05	A	P	T.O.H F/ MOTOR FAILURE & C/O MOTOR & BIT & T.I.H .	
	13:00 - 0:00	11.00	DRLPRO	02	B	P	DRILL F/ 10235 TO - 255' @ 23.1 FPH W/ 12.9 PPG VIS 45	
5/23/2008	SUPERVISOR: SID ARMSTRONG						MD: 10,645	
	0:00 - 7:00	7.00	DRLPRO	02	B	P	DRILL F/ 10490 TO 10645 - 155' @ 22.1 FPH W/ 12.9 PPG VIS 51	
	7:00 - 12:00	5.00	DRLPRO	05	E	P	CIRC BTM UP - WIPER TRIP 20 STANDS & CIRC BTM UP & R/U LAYDOWN MACHINE & HELD SAFETY MEETING.	
	12:00 - 21:00	9.00	DRLPRO	05	A	P	L/D D.P. & BHA & PULL WEAR BUSHING	
	21:00 - 0:00	3.00	DRLPRO	08	A	P	R/U BAKER ATLAS & RUN TRIPLE COMBO @ 10644	
5/24/2008	SUPERVISOR: SID ARMSTRONG						MD: 10,645	
	0:00 - 3:00	3.00	DRLPRO	08	A	P	RUN WIRELINE LOGS @ 10,644 & R/D	
	3:00 - 12:00	9.00	DRLPRO	11	B	P	R/U & HELD SAFETY MEETING & RUN PROD. STRING @ 10583 - 250 JTS PLUS MARKER & L/D JT	
	12:00 - 14:00	2.00	DRLPRO	04	A	P	R/U BJ CEMENT HEAD & CIRC BTM UP	
	14:00 - 17:30	3.50	DRLPRO	15	A	P	R/U BJ & HELD SAFETY MEETING & TEST LINES 4000 PSI & CEMENT W/ 20 BBLs MUD CLEAN & SCAVENGER 20 SKS - 11.0 PPG YIELD 3.27 & F/ LEAD 705 SKS - 12.5 PPG YIELD 2.04 & F/ TAIL 1400 SKS - 14.3 PPG YIELD 1.31 & DROP PLUG & DISPLACED W/ 163 BBLs WATER & BUMP PLUG W/ 500 OVER FINAL CIRC PSI OF 2600 & PLUG HELD & GOT BACK 23 BBLs CEMENT TO PIT.	
	17:30 - 19:30	2.00	DRLPRO	13	A	P	SET CASING HANGER W/ 80K STRING & TEST HANGER & L/D LANDING JT. - NIPPLE DOWN B.O.P'S	

Wins No.: 94881		NBU 920-15C				API No.: 4304737896
17:30 - 19:30	2.00	DRLPRO	13	A	P	SET CASING HANGER W/ 80K STRING & TEST HANGER & L/D LANDING JT. - NIPPLE DOWN B.O.P'S
19:30 - 22:30	3.00	DRLPRO	13	A	P	WASH & CLEAN OUT MUD TANKS
22:30 - 0:00	1.50	DRLPRO	01	E	P	R/D RIG & RELEASED RIG ON 05/24/2008 @ 22:30 HRS

Wins No.: 94881 NBU 920-15C API No.: 4304737896

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION START DATE: 7/14/2008  
 OBJECTIVE: DEVELOPMENT END DATE:  
 OBJECTIVE 2: ORIGINAL DATE WELL STARTED PROD.:  
 REASON: MV Event End Status:

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

MILES 2 / 2

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
7/14/2008	SUPERVISOR: WILL GLEAVE						MD: 7:00 AM. HSM. MIRU FROM 921-23C. ND WH. NU BOPS. PREP & TALLY 2-3/8 L-80 8RD TUBING. PU PIPE FROM FLOAT & TIH TO 10,580'. 337 JTS. TAGGED SOLID FILL. RU PUMP & LINES. CIRC. WELL CLEAN W/60 BBLS 2% KCL. LD 5 JTS. SWI SDFN 5:00 PM
7/15/2008	SUPERVISOR: WILL GLEAVE						MD: 7:00 a.m. HSM LD. 14 JTS ON TRAILER. STAND BACK 318 JTS.  ND BOPS. NU FRAC VALVE. MIRU B&C QUICK TEST. PRESSURE TEST CSG & FRAC VALVE TO 7200# FOR 15 MIN. (HELD). GREASE FRAC VALVE. RDMO B&C QUICK TEST.  MIRU CUTTERS WIRELINE. RIH W/ 3-1/8 EXP PERF GUNS. 23 gm. 0.36" DIA. 4 SPF. 90 deg PHASING. RIH. CCL QUIT WORKING @ 10,300'. POOH. PU NEW CCL. RIH SHOOT 16 HOLES FROM 10528-32'. PU, SHOOT 8 HOLES FROM 10508-10'. PU SHOOT 16 HOLES FROM 10500-04'. POOH. PREP FOR FRAC. SWI-SDFN. 3:00PM
7/16/2008	SUPERVISOR: WILL GLEAVE						MD:



8:00 AM. HSM. MIRU WEATHERFORD FRAC CREW.

NOTE: ALL STAGES SHOT W/ 3-1/8 EXP PERF GUNS. LOADED W/ 23 GM CHARGE, 4 SPF, 90 DEG PHASING. ALL CBP'S ARE 4-1/2 BAKER 8K CBP'S. ALL STAGES TREATED W/NALCO DVE-005 SCALE INHIB, 3 GPT IN PAD, & 1/2 RAMP, 10 GPT IN PRE PAD & FLUSH. ALL CLEAN FLUID TREATED W/ NALCO BIOCIDE 25 GPT. ALL STAGES TREATED W/ 30/50 SAND TAILED IN W/ 5000# TLC SAND FOR SAND CONTROLL.

STAGE 1: BREAK DOWN PERFS @ 3877#. EST INJ RATE OF 50.2 BBL/MIN @ 5600#. ISIP 3149. FG .74. TREATED STAGE 1 W/ 31,550# SAND. TAILED IN W/ 5000# TLC W/ SLK WATER. ISIP 3450#. NPI 301#. FG .77. 1018 TOTAL BBLS CLEAN FLUID

STAGE 2: PU 3-1/8 PERF GUNS & 4-1/2 CBP. RIH. SET CBP @ 10,444'. PU SHOOT 8 HOLES FROM 10,412-14'. PU SHOOT 8 HOLES FROM 10,348-50'. PU SHOOT 8 HOLES FROM 10,340-42'. PU SHOOT 8 HOLES FROM 10,334-36'. PU SHOOT 8 HOLES FROM 10,276-78'. POOH. BREAK DOWN PERFS @ 3687#. EST INJ RATE OF 50 BBL/MIN @ 300#. ISIP 3158. FG .75. TREATED STAGE 2 W/ 64,948# SAND. TAILED IN W/ 5000# SLK WTR. 1177 BBLS TOTAL FLUID. SCREENED OUT W/ 18 BBLS LEFT IN FLUSH. FLOWED BACK FOR 15 MIN. FLUSHED AGAIN W/ 159 BBLS. ISIP 4094. NPI 936. FG .84.

STAGE 3: PU 3-1/8 PERF GUNS & 4-1/2 CBP. RIH, SET CBP @ 10,222'. PU SHOOT 8 HOLES FROM 10190-92'. PU SHOOT 8 HOLES FROM 10174-76'. PU SHOOT 8 HOLES FROM 10088-90'. PU SHOOT 8 HOLES FROM 10038-40'. PU SHOOT 8 HOLES FROM 10002-04'. BREAK DOWN PERFS @ 3615#. EST INJ RATE OF 50.7 BBL/MIN @ 4975#. ISIP 3158#. FG .70. TREATED STAGE 3 W/ 113,057# SAND, TAILED IN W/ 5000# TLC SAND & SLK WTR. AT 73,000# SAND & 6000PSI, PUMPED SWEEP, RAMPED UP TO 2# SAND & PUMP REMAINING SAND. ISIP 3178. NPI 149. FG .75. TOTAL FLUID 3558 BLS

STAGE 4: PU 3-1/8 PERF GUNS & 4-1/2 CBP. RIH. SET CBP @ 9920'. PU SHOOT 8 HOLES FROM 9888-90'. PU SHOOT 8 HOLES FROM 9868-70'. PU SHOOT 8 HOLES FROM 9848-50'. PU SHOOT 8 HOLES FROM 9794-96'. PU SHOOT 8 HOLES FROM 9784-86'. BREAK DOWN PERFS @ 3527#. EST INJ RATE OF 50.2 BBL/MIN @ 5950#. ISIP 3105#. FG .76. TREAT STAGE 4 W/ 78438# SAND TAILED IN 5000 # TLC SAND W/ SLK WTR. ISIP 3196#. NPI 91#. FG .76. TOTA FLUID 2045 BBLS. SWI-SDFN 6:30 PM

7/17/2008

SUPERVISOR: WILL GLEAVE

MD:

7:00 - 16:00 9.00 COMP 36 B P 7:00 A.M. HSM  
CONT TO FRAC.

STG 5: P/U 3 1/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 9448'. P/U SHOOT 20 HOLES F/ 9403' - 08', P/U SHOOT 20 HOLES F/ 9382' - 87'. POOH, BRK DWN PERF'S @ 3918#, EST INJ RT @ 50.6 BPM @ 5350#, ISIP 2963#, FG .75, TREAT STG 5 W/ 45,437# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 1303 BBLS. ISIP 3363#, NPI 400#, FG .79

STG 6: P/U 3 1/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 9280', P/U SHOOT 8 HOLES F/ 9248' - 50', P/U SHOOT 8 HOLES F/ 9198' - 9200', P/U SHOOT 8 HOLES F/ 9154' - 56', P/U SHOOT 8 HOLES F/ 9142' - 44', P/U SHOOT 8 HOLES F/ 9068' - 70'. POOH. BRK DWN PERF'S @ 3312#, EST INJ RT @ 49.9 BPM @ 5530#. ISIP 2812#, FG .74, TREAT STG 6 W/ 85,658# SAND, TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 2182 BBLS. ISIP 3233#, NPI 421#, FG .78

P/U 4 1/2" CBP & RIH. SET KILL PLUG @ 9018'. POOH. RDMO CUTTERS, RDMO WEATHERFORD. ND FRAC VLV'S. NU BOPE. P/U 3 7/8" SMITH BIT. POBS & RIH W/ TBG. TAG KILL PLUG @ 9018'. L/D 1 JT TBG. R/U DRL EQUIP. R/U PMP & LINES. PREP TO DRL CBP'S IN A.M. SWI SDFN

7/18/2008

SUPERVISOR: WILL GLEAVE

MD:

Wins No.: 94881

NBU 920-15C

API No.: 4304737896

7:00 - 15:00

8.00

COMP

44

B

P

7:00 A.M. HSM

BRK CONV CIRC W/ 2% KCL &amp; BEG TO DRL

TAG KILL PLUG @ 9018', DRL UP CBP (1400# PSI INC). CONT TO RIH. TAG FILL @ 9250', (30' FILL). C/O TO 2ND CBP @ 9280'

DRL UP 2ND CBP (1100# PSI INC). CONT TO RIH. TAG FILL @ 9403', (45' FILL). C/O TO 3RD CBP @ 9448'.

DRL UP 3RD CBP (900# PSI INC). CONT TO RIH. TAG FILL @ 9890', (30' FILL). C/O TO 4TH CBP @ 9220'.

DRL UP 4TH CBP (600# PSI INC). CONT TO RIH. TAG FILL @ 10192', (30' FILL). C/O TO 5TH CBP @ 10222'.

DRL UP 5TH CBP (500# PSI INC). CONT TO RIH. TAG FILL @ 10414', (30' FILL). C/O TO 6TH CBP @ 10444'.

DRL UP 6TH CBP (400# PSI INC). CONT TO RIH. TAG FILL @ 10526', (74' FILL). C/O TO PBTD @ 10600'. CIRC WELL CLEAN. R/D DRL EQUIP. POOH L/D 17 JTS ON TRAILER. LUBRICATE TBG HANGER INTO WELL. LAND TBG W/ EOT @ 10231'. NDBOPE. DROP BALL. PMP OFF THE BIT SUB @ 3700#. R/U FLOW BACK LINES. TURN OVER TO FLOW BACK CREW. RIG DWN, RACK OUT EQUIP. PREP TO MOVE

SICP 3800#

FTP 150#

48/64 CHOKE

TBG ON LOC 343 JTS

TBG IN WELL 326 JTS

TBG ON TRAILER 17 JTS

7/19/2008

SUPERVISOR: WILL GLEAVE

7:00 -

33

A

7 AM FLBK REPORT: CP 3175#, TP 2650#, 16/64" CK, 55 BWPH, TRACE SAND, - GAS  
TTL BBLS RECOVERED: 5080  
BBLS LEFT TO RECOVER: 6801

MD:

7/20/2008

SUPERVISOR: WILL GLEAVE

7:00 -

33

A

7 AM FLBK REPORT: CP 3950#, TP 3150#, 16/64" CK, 45 BWPH, TRACE SAND, - GAS  
TTL BBLS RECOVERED: 6215  
BBLS LEFT TO RECOVER: 5666

MD:

7/21/2008

SUPERVISOR: WILL GLEAVE

7:00 -

33

A

7 AM FLBK REPORT: CP 4000#, TP 3000#, 18/64" CK, 32 BWPH, TRACE SAND, - GAS  
TTL BBLS RECOVERED: 6999  
BBLS LEFT TO RECOVER: 4882

MD:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas ☐ Dry Other  
b. Type of Completion: ☒ New ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

2. Name of Operator

KERR-MCGEE OIL & GAS ONSHORE LP

3. Address

1368 SOUTH 1200 EAST, VERNAL, UTAH 84078

3a. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report locations clearly and in accordance with Federal requirements) \*

At surface

NE/NW 684'FNL, 2181'FWL

At top prod. interval reported below

At total depth

14. Date Spudded

02/26/08

15. Date T.D. Reached

05/23/08

16. Date Completed

☐ D & A ☒ Ready to Prod.  
07/21/08

18. Total Depth: MD 10.645'  
TVD

19. Plug Back T.D.: MD 10.600'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL-CCL-GR

22. Was well cored? ☒ No ☐ Yes (Submit copy)  
Was DST run? ☒ No ☐ Yes (Submit copy)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	14"	36.7#		40'		28 SX			
12 1/4"	9 5/8"	36#		2880'		910 SX			
7 7/8"	4 1/2"	11.6#		10,645'		2105 SX			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Set (MD)
2 3/8"	10,231'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	9068'	10,532'	9068'-10,532'	0.36	240	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and type of Material
9068'-10,532'	PMP 11,883 BBLs SLICK H2O & 419,088# 30/50 SD

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/21/08	07/27/08	24	→	5	2,571	580			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. 620# SI	Csg. Press. 3264#	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Well Status	
18/64	SI	3264#	→	5	2571	580			PRODUCING GAS WELL

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Well Status	
	SI		→						

(See instructions and spaces for additional data on reverse side)

5. Lease Serial No.  
UTU-0144868

6. If Indian, Allottee or Tribe Name  
TRIBAL SURFACE

7. Unit or CA Agreement Name and No.  
UNIT #891008900A

8. Lease Name and Well No.  
NBU 920-15C

9. API Well No.  
4304737896

10. Field and Pool, or Exploratory  
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area SEC. 15, T9S, R20E

12. County or Parish  
UINTAH

13. State  
UTAH

17. Elevations (DF, RKB, RT, GL)\*  
4762'GL

RECEIVED

AUG 19 2008

DIV. OF OIL, GAS & MINING

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*)**SOLD**

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER MAHOGANY WASATCH MESAVERDE	1882' 2445' 5263' 8550'	8407' 10,532'			

## 32. Additional remarks (include plugging procedure):

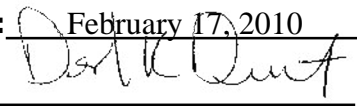
## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)      2. Geologic Report      3. DST Report      4. Directional Survey  
5. Sundry Notice for plugging and cement verification      5. Core Analysis      7. Other:

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (*please print*) SHEILA UPCHEGOTitle REGULATORY ANALYSTSignature Date 08/12/08

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0144868			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 920-15C			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0684 FNL 2181 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047378960000			
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 2/19/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER:         </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO RECOMPLETE THE WASATCH AND MESAVERDE FORMATIONS. THE OPERATOR REQUESTS AUTHORIZATION TO COMMINGLE THE NEWLY WASATCH AND MESAVERDE FORMATIONS, ALONG WITH THE EXISTING MESAVERDE FORMATIONS. PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.					
<b>Accepted by the Utah Division of Oil, Gas and Mining</b>		<b>Date:</b> February 17, 2010 <b>By:</b> 			
<b>NAME (PLEASE PRINT)</b> Andy Lytle		<b>PHONE NUMBER</b> 720 929-6100			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
<b>DATE</b> 2/17/2010					



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Sundry Conditions of Approval Well Number 43047378960000**

**Authorization: Board Cause No. 173-14.**

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** February 17, 2010  
**By:** Dan K. Quist

# Greater Natural Buttes Unit



## **NBU 920-15C** **RE-COMPLETIONS PROCEDURE**

**DATE:2/11/10**  
**AFE#:**

**COMPLETIONS ENGINEER:** Conner Staley, Denver, CO  
(720)-929-6419 (Office)

**SIGNATURE:**

**ENGINEERING MANAGER:** REBECCA JOHNSON

**SIGNATURE:**

**REMEMBER SAFETY FIRST!**

**Name:** NBU 920-15C  
**Location:** NENW 15 T9S R20E  
**Uintah County, UT**  
**Date:** 2/11/10

**ELEVATIONS:** 4762 GL 4779 KB

**TOTAL DEPTH:** 10645 **PBTD:** 10538  
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 2852'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 10583'  
Marker Joint **5214 - 5234'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1882' Green River  
2039' Birds Nest  
2445' Mahogany  
5243' Wasatch  
8622' Mesaverde

CBL indicates good cement below Surface

**GENERAL:**

- A minimum of **12** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 5/23/08
- **5** fracturing stages required for coverage.
- Procedure calls for **6** CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and 1/2 the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **7000** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.



- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump 20/40mesh **resin coated sand** last 5,000# of all frac stages
- Tubing Currently Landed @~10131
- Originally completed on 7/16/08

#### **Existing Perforations:**

##### **PERFORATIONS**

<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>
MESA VERDE		9068	9070	4	8	07/16/2008	PRODUCTION
MESA VERDE		9142	9144	4	8	07/16/2008	PRODUCTION
MESA VERDE		9154	9156	4	8	07/16/2008	PRODUCTION
MESA VERDE		9198	9200	4	8	07/16/2008	PRODUCTION
MESA VERDE		9248	9250	4	8	07/16/2008	PRODUCTION
MESA VERDE		9382	9387	4	20	07/16/2008	PRODUCTION
MESA VERDE		9403	9408	4	20	07/16/2008	PRODUCTION
MESA VERDE		9784	9786	4	8	07/16/2008	PRODUCTION
MESA VERDE		9794	9796	4	8	07/16/2008	PRODUCTION
MESA VERDE		9848	9850	4	8	07/16/2008	PRODUCTION
MESA VERDE		9868	9870	4	8	07/16/2008	PRODUCTION
MESA VERDE		9888	9890	4	8	07/16/2008	PRODUCTION
MESA VERDE		10002	10004	4	8	07/16/2008	PRODUCTION
MESA VERDE		10038	10040	4	8	07/16/2008	PRODUCTION
MESA VERDE		10088	10090	4	8	07/16/2008	PRODUCTION
MESA VERDE		10174	10176	4	8	07/16/2008	PRODUCTION
MESA VERDE		10190	10192	4	8	07/16/2008	PRODUCTION
MESA VERDE		10276	10278	4	8	07/16/2008	PRODUCTION
MESA VERDE		10334	10336	4	8	07/16/2008	PRODUCTION
MESA VERDE		10340	10342	4	8	07/16/2008	PRODUCTION
MESA VERDE		10348	10350	4	8	07/16/2008	PRODUCTION
MESA VERDE		10412	10414	4	8	07/16/2008	PRODUCTION
MESA VERDE		10500	10504	4	16	07/16/2008	PRODUCTION
MESA VERDE		10508	10510	4	8	07/16/2008	PRODUCTION
MESA VERDE		10528	10532	4	16	07/16/2008	PRODUCTION

#### **PROCEDURE:**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~10131'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 8686' (50' below proposed CBP). Otherwise P/U a mill and C/O to 8686' (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 8636'. Pressure test BOP and casing to 6000 psi. .
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
MESAVERDE	8564	8570	4	24
MESAVERDE	8602	8606	4	16
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCl and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~8564' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~8198'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
WASATCH	8014	8016	3	6
WASATCH	8072	8076	3	12
WASATCH	8130	8132	3	6
WASATCH	8164	8168	4	16
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~8014' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~6520'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
WASATCH	6454	6458	4	16
WASATCH	6484	6490	4	24
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6454' trickle 250gal 15%HCL w/ scale inhibitor in flush.
11. Set 8000 psi CBP at ~6066'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
WASATCH	6026	6036	4	40
12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6026' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
13. Set 8000 psi CBP at ~5740'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
WASATCH	5700	5710	4	40
14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5700' and flush only with recycled water.
15. Set 8000 psi CBP at~5650'.
16. TIH with 3 7/8" mill, pump off sub, SN and tubing.
17. Mill ALL plugs and clean out to PBTD at 10538'. Land tubing at ±10246' pump off bit and bit sub. This well WILL be commingled at this time.

18. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.

19. RDMO

**For design questions, please call  
Conner Staley, Denver, CO  
(720)-929-6419 (Office)**

**For field implementation questions, please call  
Jeff Samuels Vernal, UT  
435-781-9770 (Office)**

NOTES:

### Slickwater Frac

0 Enter Number of DFITs

**RECEIVED** February 17, 2010

**Name** NBU 920-15C  
**Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MESAVERDE	8564	8570	4	24		8559	to	8575
	MESAVERDE	8602	8606	4	16		8596.5	to	8616.5
					Look				
	# of Perfs/stage				40		CBP DEPTH	8,198	
2	WASATCH	8014	8016	3	6		8008.5	to	8012
	WASATCH	8072	8076	3	12		8018.5	to	8022
	WASATCH	8130	8132	3	6		8062.5	to	8078.5
	WASATCH	8164	8168	4	16		8124	to	8138
	WASATCH						8140.5	to	8149
	WASATCH						8156.5	to	8173.5
					Look				
	# of Perfs/stage				40		CBP DEPTH	6,520	
3	WASATCH	6454	6458	4	16		6442.5	to	6463.5
	WASATCH	6484	6490	4	24		6465.5	to	6496.5
					Look				
	# of Perfs/stage				40		CBP DEPTH	6,066	
4	WASATCH	6026	6036	4	40		6018.5	to	6054.5
	# of Perfs/stage				40		CBP DEPTH	5,740	
5	WASATCH	5700	5710	4	40		5694	to	5717
					Look				
	# of Perfs/stage				40		CBP DEPTH	5,650	
Totals					200				

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. UTU0144868		
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator KERR-MCGEE OIL&GAS ONSHORE			7. Unit or CA Agreement Name and No. UTU63047A		
3. Address    P.O. BOX 173779 DENVER, CO 80217			8. Lease Name and Well No. NBU 920-15C		
3a. Phone No. (include area code) Ph: 720-929-6100			9. API Well No. 43-047-37896		
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface    NENW 684FNL 2181FWL 40.04088 N Lat, 109.65402 W Lon  At top prod interval reported below    NENW 684FNL 2181FWL 40.04088 N Lat, 109.65402 W Lon  At total depth    NENW 684FNL 2181FWL 40.04088 N Lat, 109.65402 W Lon			10. Field and Pool, or Exploratory NATURAL BUTTES		
14. Date Spudded 02/26/2008			11. Sec., T., R., M., or Block and Survey or Area    Sec 15 T9S R20E Mer SLB		
15. Date T.D. Reached 05/23/2008			12. County or Parish UINTAH		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 03/17/2010			13. State UT		
17. Elevations (DF, KB, RT, GL)* 4762 GL					
18. Total Depth:    MD    10645 TVD    10642		19. Plug Back T.D.:    MD    10600 TVD    10597		20. Depth Bridge Plug Set:    MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL-CCL-GR			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 J-55	36.0		2880		910			
7.875	4.500 I-80	11.6		10645		2105			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	10243							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5700	8168	5700 TO 8168	0.360	160	OPEN
B) MESAVERDE	8564	8606	8564 TO 8606	0.360	40	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5700 TO 8168	PMP 4,532 BBLs SLICK H2O & 189,055 LBS 30/50 SD.
8564 TO 8606	PMP 1,364 BBLs SLICK H2O & 46,426 LBS 30/50 SD.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/17/2010	03/31/2010	24	→	0.0	2225.0	190.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	SI	1339.0	→	0	2225	190		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #85034 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER MAHOGANY WASATCH MESAVERDE	1882 2445 5263 8550	8407 10645			

## 32. Additional remarks (include plugging procedure):

ATTACHED TO THIS WELL COMPLETION REPORT IS THE RECOMPLETION CHRONOLOGICAL WELL HISTORY.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #85034 Verified by the BLM Well Information System.  
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

Name (please print) ANDY LYTLETitle REGULATORY ANALYSTSignature  (Electronic Submission)Date 04/19/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-15C

Project: UTAH-UINTAH

Site: NBU 920-15C

Rig Name No: LEED 698/698

Event: RECOMPL/RESEREVEADD

Start Date: 3/10/2010

End Date: 3/16/2010

Spud Date: 2/28/2008

Active Datum: RKB @4,781.00ft (above Mean Sea Level)

UWI: NBU 920-15C

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/10/2010	DWC: \$ [REDACTED]		CWC: \$ [REDACTED]					
BRETT GAR	7:00 - 7:15	0.25	COMP	48		P		JSA= MOVING EQUIP
	7:15 - 15:00	7.75	COMP	30		P		MOVE RIG & EQUIP FROM NBU 920-20P TO NBU 920-15C SPOT RIG & EQUIP RU RIG, RU DELSCO W/L FAILED TO PULL EQUIP, 80 PSI ON TUB, 150 PSI ON CAS, NU & PUMP 20 BBLs TMAC DOWN TUB W/ RIG PUMP TO CONTROL WELL, ND WELLHEAD NU BOPS, RU FLOOR & TUBING EQUIP, UNLAND TUBING POOH W/ 220 JNTS OF 2-3/8" L-80 TUBING HYD HOSE BROKE SDFN. EOT @ 3500', REPAIR TONGS POOH W/L & TEST IN AM
3/11/2010	DWC: \$ [REDACTED]		CWC: \$ [REDACTED]					
BRETT GAR	7:00 - 7:15	0.25	COMP	48		P		JSA= COMMUNICATION
	7:15 - 15:00	7.75	COMP	30		P		POOH W/ REMAINING TUBING RD FLOOR & TUB EQUIP ND BOPS NU FRAC VALVES RU FLOOR, RU CUTTER W/L & RIH W/ BAKER 10K CBP, SET @8636' POOH W/ WIRELINE, NU TESTERS, TEST CBP, CASING & FRAC VALVES TO 6200' ND TESTERS, PU RIH W/ PERF GUN, PERF MESA VERDE USING 3-3/8" EXPEND, 23 GRM, 0.36" HOLE 8602'-8606' 4 SPF, 90° PH, 24 HOLES 8564'-8570' 4 SPF, 90° PH, 16 HOLES {40 HOLES}
								SWIFW FRAC MON MORN
3/12/2010	DWC: \$ [REDACTED]		CWC: \$ [REDACTED]					
BRETT GAR	7:00 - 17:00	10.00		46				RIG ON STANDBY, WAITING ON FRAC
3/15/2010	DWC: \$ [REDACTED]		CWC: \$ [REDACTED]					
BRETT GAR	-							



## US ROCKIES REGION

## Operation Summary Report

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UWI: NBU 920-15C

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
BRETT GAR	7:00 - 17:00	10.00	COMP	36				MIRU FRAC TECH & CUTTERS. HLD FRAC TECH JSA.
								STG#1 P.T. SURF LINES TO 8330#. WHP 1733# BRK DN PERFS@ 3448# @ 5BPM, ISIP 3005#, FG.79. BULL HEAD 3 BBLS 15% HCL, cALC 32/40 PERFS OPEN. PMPD 1364 BBLS SLK WTR& 46426 # 30/50 WHITE SD W/ 5000# RC@TAIL. ISIP 3207, FG .82, NPI 202, MP 5923, MR 51.9 BPM, AP 4903, AR = 50.2 BPM
								STG#2 RIH W/ BAKER 8K CBP & PERF GUNS, SET CPB @ 8198. PERF WAS 8014-8016, 3 SPF, 120 PHS, 8072-8076, 3SPF, 8130-8132 3SPF, 8164-8168 4SPF 90 PHS, USING 3 3/8" EXP GUNS, 23GM, .36 (40 HOLES), WHP 677# BRK DN PERFS@ 2625# @ 5BPM, ISIP 2192#, FG.71. CALC 24/40 PERFS OPEN. PMPD 1251 BBLS SLK WTR& 52877 # 30/50 WHITE SD W/ 5000# RC@TAIL. ISIP 3025, FG .82, NPI 833, MP 5315, MR 50.7 BPM, AP 4735, AR = 49.1 BPM
								STG#3 RIH W/ BAKER 8K CBP & PERF GUNS, SET CPB @ 6520. PERF WAS 6454-6458 & 6484-6490 USING 3 3/8" EXP GUNS, 23GM, .36 (40 HOLES), WHP 543# BRK DN PERFS@ 2462# @ 5BPM, ISIP 1608#, FG.69. CALC 24/40 PERFS OPEN. PMPD 1155 BBLS SLK WTR& 42319 # 30/50 WHITE SD W/ 5000# RC@TAIL. ISIP 1984, FG .75, NPI 376, MP 3840, MR 49.9 BPM, AP 3300, AR = 49.6 BPM
								STG#4 RIH W/ BAKER 8K CBP & PERF GUNS, SET CPB @ 6066'. PERF WAS 6026-6036 @4SPF, 90 DEG PHS USING 3 3/8" EXP GUNS, 23GM, .36 (40 HOLES), WHP 432# BRK DN PERFS@ 3285# @ 4BPM, ISIP 1441#, FG.68. CALC 27/40 PERFS OPEN. PMPD 1439 BBLS SLK WTR& 66,079 # 30/50 WHITE SD W/ 5000# RC@TAIL. ISIP 1885, FG .76, NPI 444, MP 3565, MR 50 BPM, AP 3400, AR = 49.6 BPM
								STG#5 RIH W/ BAKER 8K CBP & PERF GUNS, SET CPB @ 5738'. PERF WAS 5700-5710 @4SPF, 90 DEG PHS USING 3 3/8" EXP GUNS, 23GM, .36 (40 HOLES), WHP 360# BRK DN PERFS@ 3722# @ 5BPM, ISIP 1468#, FG.70. CALC 24/40 PERFS OPEN. PMPD 687 BBLS SLK WTR& 27,780 # 30/50 WHITE SD W/ 5000# RC@TAIL. ISIP 2059, FG .80, NPI 591, MP 4120, MR 51 BPM, AP 3481, AR = 49.4 BPM
								KILL PLUG RIH W/ BAKER 8K CBP& SET @5650' POOH & L/D W/L/ TOOLS, RDMO CUTTERS & FRAC TECH. GRND TOTAL 30/50 WHITE = 235,481 & TOTAL FLUIDS= 5896 BBLS, ND FRAC VALVES, NUBOP, R/U FLOOR & TBG EQUIP 5PM SDWI-SDFN, PREP TO D/O IN AM

3/16/2010

DWC: \$ [REDACTED]

CWC: \$ [REDACTED]

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 920-15C

Project: UTAH-UINTAH

Site: NBU 920-15C

Rig Name No: LEED 698/698

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UWI: NBU 920-15C

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
BRETT GAR	7:00 - 17:00	10.00		44	C			<p>JSA#4, MIRU WTFD FOAM UNIT. P/U 3 7/8" BIT, POBS&amp;RIH OUT OF DERRICK ON 2 3/8" 380 TBG, TAG SCLE 5600', R/U SWVL &amp; RIG PUMP, P.T. BOP TO 2500# ESTB CIRC, C/O 50' SD TO CBP#1@5650</p> <p>DRLG CBP#1 @ 5650' D/O BAKER 8K CBP IN 7 MIN. 200# DIFF, RIH, TAG SD@5713' C/O 25' SD FCP 200</p> <p>DRLG CBP#2 @ 5738' D/O BAKER 8K CBP IN 6 MIN. 25# DIFF, RIH, TAG SD@6036' C/O 30' SD FCP 200</p> <p>DRLG CBP#3 @ 6066' D/O BAKER 8K CBP IN 5 MIN. 0# DIFF, RIH, TAG SD@6485' C/O 35' SD FCP 200#</p> <p>DRLG CBP#4 @ 6520' D/O BAKER 8K CBP IN 5 MIN. 50# DIFF, RIH, TAG SD@8158' C/O 40' SD FCP 200#</p> <p>DRLG CBP#5 @ 8198' D/O BAKER 8K CBP IN 6 MIN. 50# DIFF, RIH, TAG SD@8596' C/O 40' SD FCP 250#</p> <p>DRLG CBP#6 @ 8636' D/O BAKER 8K CBP IN 3 MIN. 0# DIFF, RIH, TAG 10,548</p> <p>PBTD@10548', CIRC WELL CLEAN, R/D SWVL, POOH&amp;L/D 10 JTS ON FLOAT. LAND TBG ON HANGER W/ 327 JTS USED 2 3/8" L80 TBG, EOT@ 10246.09 &amp; POBS W/ XN NIPPLE@ 10243.89, AVG 5 MIN/PLUG &amp; C/O 220'SD. R/D FLOOR &amp; TBG EQUIP, NDBOP, NUWH, DROP BALL DN TBG &amp; PMP OFF BIT@1600#. OPEN WELL TO FBT, TURN WELL OVER TO FBC. RACK EQUIP, R/D WTFD FOAM 4PM SDFN, LTR@3 PM = 5116 BBLS, R/D TIG</p>
3/18/2010	DWC: \$ 0.00		CWC: \$					
BJ SMUIN	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1900#, TP 1100#, 20/64" CK, 30 BWPH, 1/8 CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 2395</p> <p>BBLS LEFT TO RECOVER: 3501</p>
3/19/2010	DWC: \$ 0.00		CWC: \$					
BJ SMUIN	7:00 -			33	A	P		<p>7 AM FLBK REPORT: CP 1800#, TP 1100#, 20/64" CK, 20 BWPH, TSP. SAND, - GAS</p> <p>TTL BBLS RECOVERED: 2935</p> <p>BBLS LEFT TO RECOVER: 2961</p>
3/20/2010	DWC: \$ 0.00		CWC: \$					
BJ SMUIN	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1650#, TP 1200#, 20/64" CK, 10 BWPH, TRACE SAND, - GAS</p> <p>TTL BBLS RECOVERED: 3220</p> <p>BBLS LEFT TO RECOVER: 2676</p>
3/31/2010	DWC: \$ 0.00		CWC: \$					
BJ SMUIN	7:00 -		PROD	50				<p>WELL IP'D ON 3/31/10 - 2225 MCFD, 0 BOPD, 190 BWPD, CP 1339#, FTP 218#, CK 26/64", LP 134#, 24 HRS</p>